Harrison D. Horblit

V. S. M. van der Willigen 1844.

Prima & jam rara editio, Vlackiana eo præferenda,
quod Logarithmi 15 litterarum numero exprimuntur.

ARITHMETICA

LOGARITHMICA

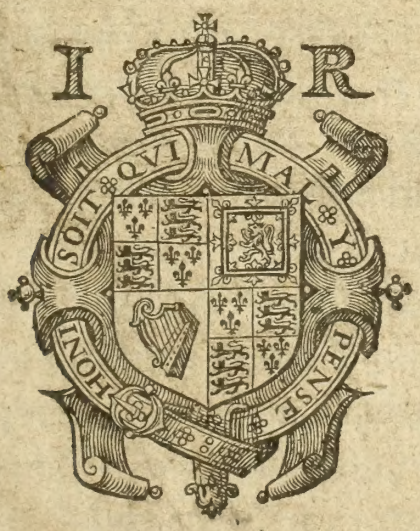
SIVE

LOGARITHMORVM CHILIADES TRIGINTA, PRO

numeris naturali serie crescentibus ab vnitate ad 20,000 : et a 90,000 ad 100,000. Quorum ope multa perficiuntur Arithmetica problemata et Geometrica.

HOS NVMEROS PRIMVS INVENIT CLARISSIMVS VIR IOHANNES NEPERVS Baro Merchistonij : eos autem ex eiusdem sententia mutavit, eorumque ortum et vsum illustravit HENRICVS BRIGGIVS, in celeberrima Academia Oxonienſi Geometriæ professor SAVILIANVS.

DEVS NOBIS VSVRAM VITÆ DEDIT ET INGENII, TANQVAM PECVNIÆ, NVLLA PRÆSTITVTA DIE.



LONDINI,
Excudebat GVLIELMVS IONES. 1624.

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ILLVSTRISSIMO DOMINO CAROLO PRINCIPI VVALLIÆ DVCI CORNVBIÆ, &c. SERENISSIMI IACOBI MAGNÆ BRITANNIÆ REGIS FILIO VNICO.

VT Illustrissimæ Celsitudini Tuæ, Princeps Potentissime, Mathematicas hasce cõmentationes meas dedicare auderẽ; non argumẽti novitas aut pulchritudo, non cũ maxima delectatione coniuncta vtilitas persuadere potuissent: nisi horum Logarithmorũ inventor vir clarissimus *Iohannes Nepertus Baro Merchistonii.* cum eos primum in lucem dedit, eorum patrocinium spectatæ Tuæ authoritati virtutique Commẽdasset. Quo deinceps iure ac nomine, et ista, vtcunq; primo aspectu videãtur minutiora, non tamẽ indigna sunt, quæ in hominũ, quotquot eruditũ hunc attigerũt pulverem, oculos & manus perveniant. Præsertim cum Deo visum fuerit (post Evangelij lucem, qua orbem hunc nostrum illustrari voluit) plurima humanæ vitæ vtiliter inventa, quorum nullum vtiq; apud antiquos extiterit vestigium, nobis communicare. Atque in his, vt Artes Mathematicæ primarium tenent locum, ita in illis Logarithmorum ratio cæteris partibus præcellit, siue inuentionis spectemus acumen, siue

ue vſus præſtantiam. Quorum vtrumque pro virili conatus ſum in hoc libro explicare. Noſtrum erit hæc omnia Deo, ſoli omnigenæ ſapientiæ boniquè autori accepta ferre, ad ipſius cultum referre: atque hæc humanitatis ſtudia ita ſectari; ne qua ex parte cæleſtia negligere arguamur. *DEVS OPT. MAX.* Cæli et Terræ Dominus, Illuſtriſſimam C. Tuam, Patri Patriæque Eccleſiæ et Reipublicæ diutiſſime ſeruet incolumem

Deuotiſſimus

Celſitudinis Tuæ

Cultor

HENRICVS BRIGGIVS.

Lectori. S.

VT obſcuritatis crimen, quantum in me ſitum fuerit effugiam, paucula hæc humaniſſime Lector, te admonendum cenſui.

1. *Si numerus occurrat cui linea ſubſcribitur, notæ illæ quæ ſupra lineam ſunt deſcriptæ, Numeratorem partium conſtituunt, quarum Denominator ſemper intelligitur* Vnitas, *cum tot cyphris, quot ſunt notæ ſuperius poſitæ. vt* $\underline{75}$ *deſignant* $\frac{75}{100}$ *vel* $\frac{3}{4}$. *ſic* $5\underline{9321}$ *deſignant* $5\frac{9321}{100000}$.

2. *Si numero præponatur l nota: per eam intelligas velim, latus numeri adiuncti. vt l 3, latus ternarii. vel medium proportionalem inter 1 et 3. ſic l (3) 8, latus cubicum Octonarii, id eſt 2. ſic l bin 2 + l 3. latus binomii 2 + l 3. vbi latus ternarii addendũ eſt binario; et latus totius ſumendum. ſic pag 82. l quadrinomii* $122\frac{1}{2} + l\ 7503\frac{1}{2} - l\ 3001\frac{1}{2} - l\ 1500\frac{1}{2}$. *vbi ablatis duobus poſterioribus lateribus, ex aggregato lateris præcedentis et* $122\frac{1}{2}$, *quæritur latus reliqui. Quod ſi l geminetur, deſignat latus lateris: vel latus biquadrati. Vt pag* 85, *ll* $85\frac{1}{3}$. *Latus* $85\frac{1}{3}$ *eſt* $9\underline{37604307}$, *et huius lateris latus eſt* $3\underline{03934274}$. *cui numero æquatur* $\bar{x}\ 85\frac{1}{3}$.

3. *Si Logarithmo linea præponatur, erit numerus cui conuenit ille Logarithmus, minor vnitate. vt* $-0{,}22724{,}3780$, *eſt Logarithmus partium* $\frac{16}{27}$. *qua de re vide cap.* 10.

Quod Logarithmi iſti diuersi ſunt ab iis, quos Clariſſimus vir Baro Merchiſtonii *in ſuo edidit Canone mirifico, non eſt quod mireris. Ego enim cum meis auditoribus* Londini, *publice in Collegio* Greſhamenſi, *horum doctrinam explicarem; animaduerti multo futurum commodius, ſi Logarithmus Sinus totius ſeruaretur 0 (vt in Canone mirifico) Logarithmus autem partis decimæ eiuſdem ſinus totius, nempe ſinus 5 graduum, 44, m. 21, s. eſſet* 10000000000. *atque ea de re ſcripſi ſtatim ad ipſum authorem, et quamprimum per anni tempus, et vacationem a publico docendi munere licuit, profectus ſum* Edinburgum; *vbi humaniſſime ab eo acceptus hæſi per integrum menſem. Cum autem inter nos de horum mutatione ſermo haberetur; ille ſe idem dudum ſenſiſſe, et cupiviſſe dicebat: veruntamen iſtos, quos iam parauerat edendos curaſſe, donec alios, ſi per negotia et valetudinem liceret, magis commodos confeciſſet. Iſtam autẽ mutationẽ ita faciendã cenſebat, vt 0 eſſet Logarithmus vnitatis, et* 10000000000 *ſinus totius: quod ego longe commodiſſimum eſſe non potui non agnoſcere.*

Cæpi igitur eius hortatu, reiectis illis quos anteà paraueram, de horum calculo ſerio cogitare: et ſequenti æſtate iterum profectus Edinburgum, *horum quos hic exhibeo præcipuos, illi oſtendi. idem etiam tertia æſtate libentiſſime facturus, ſi DEVS illum nobis tamdiu ſuperſtitem eſſe voluiſſet.*

Quanti autem laboris fuerit; binarii, reliquorumque numerorum proxime ſubſequentium Logarithmos inuenire; facile poterit quiſpiam, ex iis quæ ſexto capite et præcedentibus traduntur iudicare: tandem autem tot perfectis Chiliadibus, quæ res antea fuit plus ſatis moleſta, nunc nihil fere in ſe habet difficultatis. Nam Differentiæ, quæ ante annos viginti mihi maximo vſui fuerunt in nouo Canone ſinuum condendo, in horum Logarithmorum calculo ſunt mihi multo melius perſpectæ et cognitæ. Quæ licet laborem prorſus tollere non potuerint, difficultatem tamen omnem ſuſtulerunt. vt cap. 13 oſtendi. ita vt ſi quis fuerit, qui illam inter Viceſimam et Nonageſimam Chiliadem lacunam expletam cupiat, et in harum calculo operæpretium ſe facturum arbitretur, ſi me certiorem facere dignatus fuerit; ego illi oſtendam quam Chiliadem commode aggredi poteri ne irrito conatu incidat in eandem illam quam alius aliquis abſoluendam ſuſcepit. Chartam etiam, quam paratam in hunc finem, et in areolas lineis rectis diſtinctam habeo, ei mittendam curabo. Et vbi totum illud ſpatium interiectum impletum fuerit, dabo operam vt, ſi commode fieri poterit, integrum opus denuo imprimatur.

Poſtremo rogandus es, vt hæc errata et ſi quæ alia occurrant diligenter emendes. quorum pleraque in Chiliadibus contigerunt, quod ipſe cum imprimebantur intereſſe non potui. Aliquando plures numeri proximi, conſimili morbo laborant: ex jis ſufficit primum adnotare, et numerum omnium adſcribere, quibus eadem medela adhibenda eſt. vt ad numerũ abſolutum 1083. ſeptem numeri proximi ſunt corrigendi. ſic 2481. ſunt nouem corrigendi, quos omnes vnica differentia corrupit, eademque correcta facillime emendabit. Nota correcta ſemper ſita erit tertio loco a principio vel fine numeri correcti, vt pro 2534. antepenultima corrigitur: et pro 2853 tertia à principio. Quod ſi in rebus maioris momenti Logarithmus aliquis erroris ſuſpectus fuerit; poterit, per differentiarũ differentias non difficulter explorari: vel per additionem illius Logarithmi qui binario (vel alteri cuilibet) tribuitur: nam ſi nullus ſubſit error, totus erit Logarithmus facti a binario et illo altero de cuius Logarithmo ambigebatur. Vale e Collegio Mertonenſi pridie Cal. Octob. 1624.

H. Br.

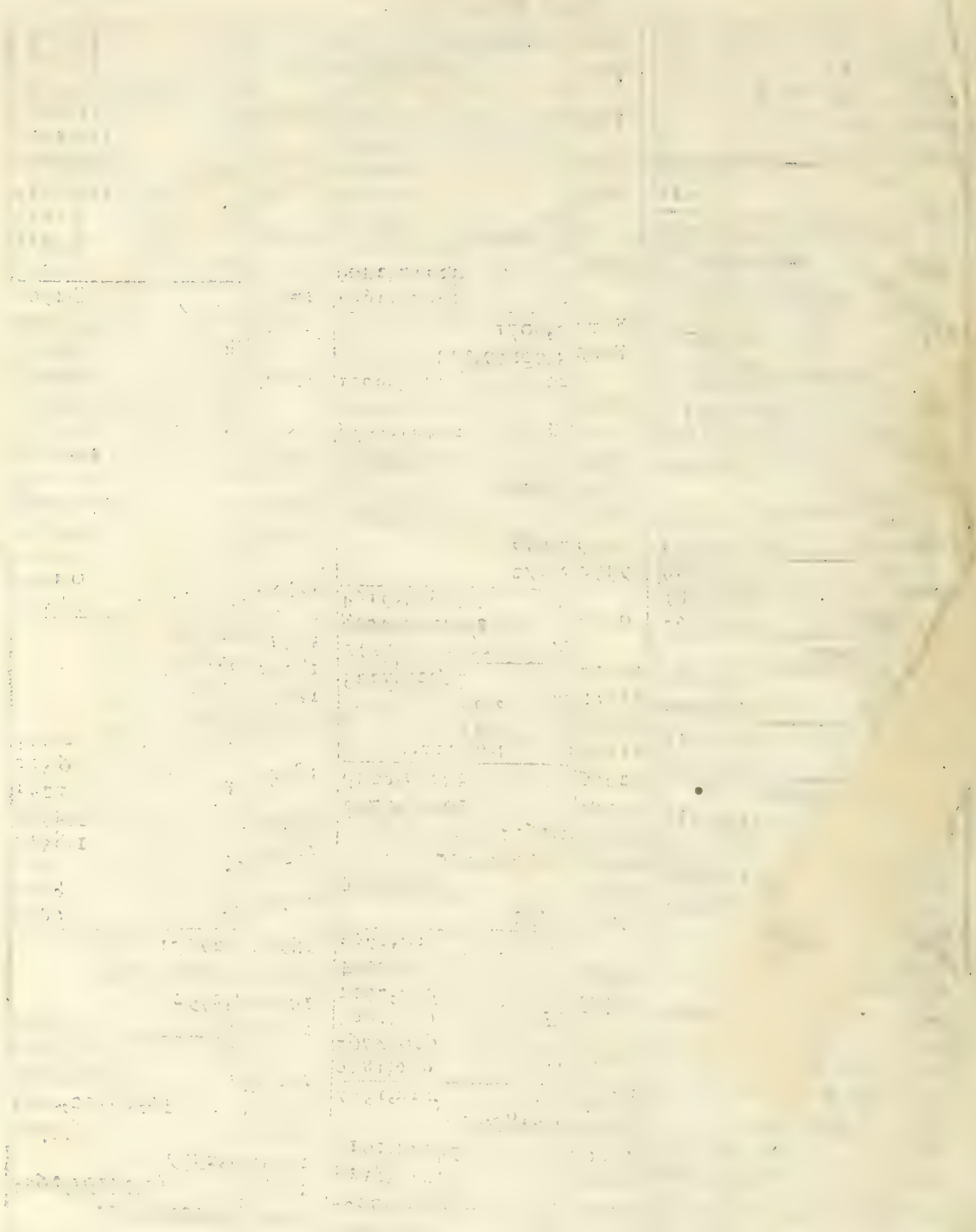
Errata Typographica.

Num.		
540	2,732	
1083	3,0346	etc 7
1810	3,257	
2263	3,3546	
	diff	4,4599
		2,7221
2481	9	
	dif	17,05456,4598
		02,89449 63 63
2547	diff	17,04786 9970
	diff	504,7725
2853		716,5708
	diff	971,2155
	diff	6126,6759
2865		6263,034 0
	diff	5597,5792
3016	4.	371,9774
3895	3,590	
	diff	12577,1340
3904	ete 6.	98089,946 5
	diff	496,9689
3929		288,1181
	diff	215,6362
4216	3,62490	4.
	dif	73,9569
4823	7	57,5994
4899		94,5633
	dif	05,7218
4987	3,69783,936	
5216		75827,2388
	dif	62,3396
5536		14,4870
	dif	20,6323
6236	3,79490,61	
6248	3,79574,10	
6417	3,80733	
6472		086,0422
6620		9894,3971
6696	3,8258	
6732	3,8281	
6759	3,82988	,244
6791	9.	37304,6674
7000		80400,1426
	dif	20376,3769
	dif	16151,6389
7049		75105,6788

7608	3,88127,050	
7679		46675,8897
	dif	5,64495,3304
7694	6.	5,21819,7078
	dif	51,1441
7866	4	20,7372
7869		53,1002
	dif	70.4905
	dif	38526,2353
8065		43717,2499
	dif	38459,4662
8075	3,9071	
8102	3,90859,223	
	dif	29465,9951
8203		27115,5098
	dif	29401,4536
8220		18175,4006
8475	3,9281	
8820		3182
9099	3,958	
9394	3,972	
	dif	4,45635,9164
9746		2,64070,4528
	dif	4,45590,1937
10005		70929,7223
11016	dif	3,94
11033	dif	3,93
11803	dif	3,67937,
12066		33209,8039
14314		10128,7793
14574	4,1635	
14703	4,16740,595	
14728		7754,9596
14917	4,173	
	dif	64,1968
16472		36,0995
16473		984,2902
	dif	632,1863
16474		616,4765
	dif	616,1840
16544		214,1387
16554	4,21890,29	
16667		74354,1915
16668		3491 7,8526
17000		4,89213,7827
17459	dif	874,39400

	dif	41,1041
17616	4	16,2767
	dif	27,1093
17645	dif	6135,8962
	dif	121,9473
17646		748,9072
17658		4,15124,8325
	dif	5,2834
17686		6,7911
	dif	1,3991
17687		8.1902
17688		5,7066
	dif	3,6352
17689		9,3418
	dif	9,7555
	dif	1,1320
17726		49,6831
	dif	7,3103
17727		446,9934
17728		30,4835
	dif	9,6714
17729		0,1549
	dif	5,8543
18512	4,2674	
18581	4,2690	
18679	4,2713	
18698	4,271	
	dif	1 393
18741		6 569
	dif	7741
18742		5,4310
18743		1,8413
	dif	0478
18744		8891
	dif	6866
18781	4,27371	
18867	4,27570,284	
19021	4,2792	
18956	dif	00,5629
	dif	5215,5895
19284		1228,1097
19569		56,86332,4215
19645		1,4783
19677	4,2939	
19685		13,54191,2625
19748	4,29552,311	
19940	4	1539,7563

pag. 9. lin. ſerie ab .numeris
pag. 16. lin. bus homogenearum. lin. 37|100 290,760.
pag. 17. lin. tuor continue.
pag. 20. lin. reſtabunt.
pag. 27. lin. 2. lege 9405039.
pag. 32. lin. tabula proſt lege. pag. 31.
pag. 33. lin. 38. quarta repertus. lin, 40. in hac tabula.
pag. 48. lin. 10. Eſt enim Area æqualis lin. 48, *B F C.* id eſt.
pag. 51. lin. tandum. trianguli plani.
pag. 52. lin. 1. ter *G B* et *B F*. Cap. X I X. lin. antepenultima Datis *H F.* Diametro Terræ et *E F* alt oc ſu ma in rectam *E O*.
pag. 53. lin. 6. pro ab $117\frac{25}{}$, lege *E O* $117\frac{25}{}$
pag. 73. lin. 13. Quadratum
pag. 74 lin. Supereſt quod.
pag. 78. lin. teribus reliquarum.
pag. 79. lin. adſcrib vnicuique.



ARITHMETICA LOGARITHMICA.

Caput Primum,

De Logarithmorum definitione & nominis notatione.

LOGARITHMI ſunt numeri qui proportionalibus adiuncti æquales ſeruant differentias.

Datis quibuſcunque numeris alij numeri ijque diverſi ijs adiungi poterunt qui non incommode generali Logarithmorum definitioni conveniant & vſum aliquem non ingratum præbere poterunt. vt ſi numeri continue proportionales fuerint 1.2.4.8.16.32.64.128. poterunt ijs pro Logarithmis adiungi numeri inſigniti *A*, vel *B*, vel *C*, vel *D*, vt hic vides. vel alij, modo hoc vnicum ſervetur, vt Logarithmorum, vnà creſcentium vel decreſcentium differentiæ ſint æquales, quoties numeri quibus ſunt adiuncti ſunt proportionales. vt non incommode Logarithmi dici poſſint, *numerorum proportionalium comites æquidifferentes.* Qui ideo videntur à clariſſimo Inventore Logarithmi nominati, quia numeros nobis exhibent eandem inter ſe ſeruantes rationem.

	A	*B*	*C*	*D*
1	1	5	5	35
2	2	6	8	32
4	3	7	11	29
8	4	8	14	26
16	5	9	17	23
32	6	10	20	20
64	7	11	23	17
128	8	12	26	14
numeri Proportionales.	Logar	Logar	Logar	Logar

Atque vt horum Logarithmorum naturam & affectiones melius noſcamus, Lemmata quædam ſunt conſideranda.

Lemma primum.

Si quotlibet numeri ſtatuantur æqualiter creſcentes vel decreſcentes eorum differentiæ ſunt intervallis eorundem proportionales.

Vt in numeris *D* ſignatis ſumantur primus, tertius & octauus, 35.29.14. inter primum & tertium ſunt duo intervalla, inter tertium & octauum ſunt quinque intervalla. aio differentiam primi & tertij 6, eſſe ad differentiam tertij & octaui 15, vt duo ad quinque.

Idcirco in ſerie numerorum continue proportionalium, datis duorum quorumcunque Logarithmis; poterimus alterius cuiuſvis Logarithmum invenire. Datur enim horum numerorum inter ſe intervallum & tertij ab horum alterutro, datur etiam datorum Logarithmorum differentia. Datis ergo duobus interuallis & Logarithmorum datorum differentia, altera dati & quæſiti Logarith-

garithmorum differentia proportionalis inventa erit. vt ſunto 4. 6. 9. $13\frac{1}{2}$. $20\frac{1}{4}$. $30\frac{3}{8}$. continue proportionales, & ſint Logarithmi primi & tertij numeri dati, nempe 060206, & 095424, eorum differentia 035218. quæritur Logarithmus numeri $30\frac{3}{8}$, ſexti nempe datorum. Data interualla inter primum numerum & tertium ſunt duo, inter tertium & ſextum tria; data Logarithmorum differentia 035218, quartus quæſitus numerus proportionalis 052827 eſt differentia Logarithmorum quæſita, quæ tertij numeri dato Logarithmo adiecta, dat 148251 Logarithmum ſexti numeri quæſitum. vt hic vides,

4	7	060206	diff. data.	035218	
6					
9	11	095424			
$13\frac{1}{2}$			diff. quæſ.	052827	
$20\frac{1}{4}$					
$30\frac{3}{8}$	17	148251			
cont	$10\frac{1}{2}$	Logarith.			
prop					

prop. 2 ----- 3 ---- } interualla data.
035218 data
052827 quæſita } differentia.

Lemma ſecundum.

Si è quatuor numeris, quantum primus ſuperat ſecundum, tantundem tertius ſuperet quartum: erit ſumma primi & quarti, æqualis ſummæ ſecundi & tertij: & contra. vt 9. 5. 15. 11. ſumma tam mediorum quam extremorum eſt 20. vide 4. prop. lib. 1. poriſmatum Bacheti in Diophantum.

Atque hæc duo Lemmata, Logarithmorum in genere, præcipuas affectiones ſatis illuſtrant.

Caput. II.

Logarithmus vnitatis ſit 0.

Licet autem poſſimus Logarithmorum plures ſpecies ijſdem numeris ad hunc modum aptare, erit tamen cõmodiſſimum vnica tantum vti ſpecie, eáque quæ cyphram ponit pro Logarithmo vnitatis. quod ea præ cæteris omnibus vſum præbeat ad omnia accommodatiſſimum & maxime expeditum. quo poſito tria maximi momenti axiomata neceſſario conſequuntur.

1 Primum. Omnium numerorum Logarithmos eſſe, vel eos numeros qui Indices appellantur, & apud omnes Arithmeticos numeris ab vnitate continue proportionalibus adiungi ſolent, eorumque ab vnitate diſtantiam oſtendunt: vel hiſce vſitatis Indicibus proportionales.

A	*B*	*C*	*A*	*B*	*C*	*A*	*B*	*C*
1	0	0000	1	0	0	1	0	0
10	1	1000	3	1	047712	2	1	03010299
100	2	2000	9	2	095424	4	2	06020599
1000	3	3000	27	3	143136	8	3	09030899
10000	4	4000	81	4	190848	16	4	12041199
100000	5	5000	243	5	238561	32	5	15051499
1000000	6	6000	729	6	286272	64	6	18061799

A ſunt numeri continue proportionales ab vnitate. *B* Indices vulgares. *C* Logarithmi ipſis Indicibus proportionales. Cum enim tam Logarithmi quam Indices, in numeris ab vnitate continue proportionalibus (quibus ſolis indices adiungi ſolent) ab eodem principio æqualiter creſcentes, pro ratione diſtantiæ, ſint ipſis intervallis proportionales, inter ſe etiam proportionales erunt neceſſario. vt in hiſce appoſitis numeris videmus.

2 Secundum. Logarithmum facti æquari Logarithmis factorum. Cum enim ex multiplicationis lege, eadem ſemper ſit ratio Vnitatis ad Multiplicantem, quæ eſt Multiplicati ad Factum, & ex ipſa Logarithmorum definitione conſtet, proportionalium Logarithmos eſſe æquidifferentes: patet per ſecundum

dum Lemma, Logarithmos primi & quarti, id est vnitatis & facti, æquari Logarithmis secundi & tertij, id est, multiplicantis & multiplicati. Et cum vnitatis Logarithmus sit 0, manifestum est facti solius Logarithmum, æquari Logarithmis facientium. vt in his videmus.

		Logarithm
	1	00000
factores	3	047712
	27	143136
factus	81	190848

Quod si factores plures fuerint; eorum omnium Logarithmis æquatur Logarithmus facti. vt sint factores 2. 8. 64. numerus continue factus ab ijsdem 1024. huius Logarithmus 301030, æquatur Logarithmis trium illorum, ex quorum multiplicatione hic factus proveniebat. vt hic videmus:

		Logarithmi
A	2	030103
B	8	090309
C	64	180618
D	1024	301030
E	16	

Cum enim Logarithmus numeri *E* 16, facti ab *A* numero ducto in *B*, æquetur Logarithmis numerorum *A B*, & eadem de causa Logarithmus numeri *D*, æquetur Logarithmis numerorum *E C*, necesse est Logarithmum numeri *D*, æquari Logarithmis numerorum *A*, *B*, *C*. quod erat demonstrandum.

Tertium. Logarithmum diuisi æquari Logarithmis diuisoris & quoti. Hoc autem necessario concluditur ex præcedente, quia factus à diuisore ducto in quotum est ipse diuisus: & idcirco, vt vnitas ad diuisorem, sic quotus ad diuisum. vt sit dividendus 128, diuisor 4, quotus erit 32. 3

		Logarithmi
	1	000000
factores	Diuisor. 4	060206
	Quotus. 32	150515
factus	Diuisus. 128	210721

Quod si post peractam primam diuisionem, Quotus ipse diuisus fuerit, Logarithmus numeri primo diuisi æquabitur Logarithmis diuisoris vtriusque & posterioris quoti. quia diuisor & quotus posteriores substituuntur loco prioris quoti. vt sit dividendus 105, diuisor 7, quotus erit 15. hunc quotum dividat 5, quotus erit 3. ato Logarithmum numeri 105 æquari Logarithmis numerorum 7. 5. 3. vt hic vides:

	Logarithmi
Diuisor 7.	0845098
Diuisor 5.	0698970
Quotus posterior 3.	0477121
Diuisus 105.	2021189

Atque hæc tria necessario consequuntur si statuamus Logarithmum vnitatis esse cyphram.

Caput III.

VNitatis Logarithmo constituto, proximum est vt aliũ quæramus numerũ, cuius vsus est frequentissimus & maxime necessarius, eiq; tribuamus Logarithmum aliquem commodum, qui facillime & describi quoties opus fuerit & memoria teneri poterit. Ex omnibus autem numeris, nullus videtur Denario præstantior, aut huic negotio accommodatior. cuius Logarithmus esto 1,00000,00000,0000.

Sunto igitur numeri præcipui Vnitas & Denarius, eorumque Logarithmi 0, & 1,00000,00000,0000. Primos autem hosce quatuor statuimus, non necessitate aliqua adducti, sed pro arbitrio; nec operationum Arithmeticarum

certitudinem ſpectantes (quæ alijs modis plurimis ijſque diverſiſſimis haberi poterit) ſed facilitatem. Reliqui Logarithmi (cum in ijs conſtituendis non ſit integrum quicquam agere pro arbitrio) ſunt omnes hiſce primis ita aptandi, vt ſummo conſenſu à principio ad finem vſque, ijſdem legibus obtemperent, eundemque quoties vſus poſtulat effectum dent.

Horum autem quos quærimus Logarithmorum alij ſunt rationales, qui accurate inveniri & exhiberi poterunt, alij irrationales, quos non vndequaque perfectos, ſed perfectis veriſque proximos dabimus, vt vix tota vnitas in numeris adeo magnis eorum cuiquam vel deſit vel ſuperſit.

Rationales Logarithmi. Rationales Logarithmi non iſtis tantum duobus debentur Vnitati & Denario, quibus reliquorum omnium ſtructura quaſi fundamentis incumbit, ſed omnino omnibus, qui quovis modo cum ijſdem in eandem continue proportionalium ſeriem conijci poterunt. vt hic vides:

A	*B*
1	0
10	100000
100	200000
1000	300000
10000	400000

A	*C*	*B*
1	1	0
ll 10 ----	1 77827941	025000
l 10	3 16227766	050000
ll 1000 ---	5 62341325	075000
10	10	100000
ll 100000 --	17 7827941	125000
l 1000	31 6227766	150000
ll 10000000	56 2341325	175000
100 -----	100 -----	200000

A	*C*	*B*
1	1	0
l (6) 10	1 46779926762	0666⅔
l (3) 10	2 15443469003	0333⅓
l (2) 10	3 16227766017	05000
l (3) 1000	4 64158883360	0666⅔
l (6) 100000	6 81292069054	0833⅓
10	10 -----	10000

A ſunt numeri ab vnitate continue proportionales. *C* valores eorundem in numeris abſolutis, qui ſunt etiam continue proportionales. *B* eorum Logarithmi rationales & veri.

Reliqui omnes numeri qui in huiuſmodi aliquam continue proportionalium ſeriem (in qua dati duo muneri Vnitas & Denarius ſiti ſunt) cadere non poſſunt, habent Logarithmos irrationales, qui neque in numeris integris neque in partibus quas fractiones appellant accurate exprimi poterunt. Licet autem eos accuratos habere non poſſumus, poterimus tamen eos invenire adeo veris propinquos, vt ſi vſum ſpectemus inter rationales & irrationales nihil interſit. Hoc ipſo morbo Ptolemæi Canon ſubtenſarum, & ſubſequentium omnium ad hæc vſque tempora Aſtronomorum Canones Sinnum, Tangentium, & Secantium, ſine aliquo grauiore incommodo laborarunt.

Caput IIII.

Logarithmorum Characteriſtica. Logarithmorum autem omnium præcipui ſunt ij qui Vnitati tribuuntur & Denario, iſtis vero proximi ijs numeris debentur qui in decupla ratione continuantur, nempe Centenario Millenario, &c. qui omnes cyphris tantum deſcribuntur præter primam notam verſus ſiniſtram, quam characteriſticam appellare poterimus, quod nobis indicet quot notis numerus integer progreditur vltra locum vnitatis. Eandem etiam habent Characteriſticam reliqui numeri ijſdem proximi. Vnitatis nempe & omnium integrorum qui vnica nota ſcribi poterunt (eorum ſcilicet qui ſunt denario minores) characteriſtica eſt cyphra. Denarij vero & reliquorum vſque ad Centenarium qui duabus notis

notis sunt descripti Characteristica est 1. à Centenario vero ad Millenarium 2. à Millenario ad decies mille 3. & sic deinceps, crescente semper Characteristica pro numero locorum vltra locum Vnitatis.

Quod si numero integro partes adhæserint, licet totus numerus pluribus notis scribatur: eius tamen Characteristica respicit tantum illas notas quibus integræ vnitates scribuntur, reliquarum subsequentium notarum quibus partes adiunctæ exprimuntur nulla habita ratione. vt

7	0,845098	4 2.	0,690196
49	1,690196	3 43.	0,535294
343	2,535294	2 401.	0,380392
2401	3,380392	16 807.	1,225490
16807	4,225490		

Vt 343 cuius Logarithmus 2535294 huius prima nota versus sinistram quam Characteristicam appellamus, est 2: quia datus numerus situs est inter Centenarium & Millenarium, at 34$\frac{3}{}$ & 3$\frac{43}{}$ licet eorum Logarithmi reliquas notas seruent easdem, primas tamen versus sinistram mutat vterque. est enim huius Logarithmus 0535294 (eo quod 3$\frac{43}{}$ est denario minor) illius vero 1535294.

Caput V.

HI Logarithmi duobus præcipue modis inueniri poterunt, quorum vterque à clarissimo inventore Barone Merchistonij traditur in appendice, quam libello de Mirifici Logarithmorum canonis constructione subiunxit, quam consulas suadeo à pagina 40ª vsque ad 53ª. Ego vtrumque modum vt potero conabor illustrare.

Ad priorem modum expediendum sunt mihi quædam Lemmata præmittenda.

Lemma primum.

Si è serie numerorum ab vnitate continue proportionalium *A*, sumantur duo quilibet numeri *C* 8 & *D* 32, & eorum indices 3 & 5; & instituantur duæ aliæ continue proportionalium series *E* & *F*, in quibus dicti numeri *C* & *D* proximo ab vnitate loco ponantur, & continuetur vtraque series donec 3 (index numeri *C* in data serie *A*) respondeat continue facto in serie *F*; & eodem modo 5 index numeri *D* respondeat continue facto in serie *E*; erunt hi facti in vtraque *E* & *F* æquales. vt hic videmus. Eorum enim vterque æquatur numero in data serie *A* reperto, cuius index est 15 factus ab altero indicum priorum in reliquum ducto.

Q	*A*	*B*	*P*	*E*	*M*	*F*	*N*
0	1	0	0	1	0	1	0
	2	1		8	1	32	1
	4	2		64	2	1024	2
	C 8	3	1	512	3	32768	3
	16	4		4096	4		
1	*D* 32	5		32768	5		
	64	6	2				
	128	7					
	256	8					
	512	9	3				
2	1024	10					
	2048	11					
	4096	12	4				
	8192	13					
	16384	14					
3	32768	15	5				

A series prima continue proportionalium data. *B* Indices eiusdem seriei.
E series secunda continue proportionalium. *M* Indices eiusdem, quibus æquantur *P*.
F series tertia, cuius Indices *N*, ijsque æquales *Q*.

Continue factus hic dicitur qui fit à numero aliquo ducto in seipsum primo, deinde in hunc factum, eodemque modo in factos suos omnes subsequentes. vt ab 8 fiunt continue 64, 512, 4096, 32768, 262144, 2097152. Atque hi muneri (& quotquot continue fiunt per multiplicationem eiusdem) sunt continue proportionales: quia omnes sunt proxime præcedentium æquemultiplices.

Lemma secundum.

2 Si numerus quilibet in serie numerorum ab Vnitate continue proportionalium, dividatur continue [a] per suum latus [b] quoties fieri poterit: divisionum numerus [c] erit Index divisi, ostendens dati numeri ab vnitate distantiã, vel numerum intervallorum inter Vnitatem & Divisum. vt esto datus numerus 729, eiusque latus datum sit 3, hoc latus continue dividet datum numerum sexies, eruntque quoti 243. 81. 27. 9. 3. 1. erit igitur 6 Index dati numeri. vt hic vides:

1	0
3	1
9	2
27	3
81	4
243	5
729	6

[a] Numerus dicitur continue dividi; cum idem divisor diviserit, & datum, & dati quotum, & quoti deinceps quotum quemlibet. Atque hi quoti sunt continue proportionales, quia quilibet est ad suum quotum vt Divisor ad Vnitatem.

[b] Latus cuiusque muneri dicitur numerus Vnitati proximus, in eadem serie continue proportionalium cum dato. vt in hac serie, Latus est 3.

[c] Hic non quæruntur ipsi quoti, sed tantum numerus quotorum. Licet ipsi etiam quoti sint adscripti, quo omnia fiant magis manifesta.

Lemma tertium.

3 Datis duobus numeris in eadem continue proportionalium serie positis, vna cum Indice alterius datorum: reliqui Indicem vel distantiam ab vnitate invenire.

Sunto vt in primo Lemmate dati duo numeri ex eadem serie data desumpti 8 & 32, sitque Index maioris numeri datus 5, reliqui Index ignotus sic invenietur. Fiat per multiplicationem numeri 8 (cuius index quæritur) in seipsum & in factos à seipso, series altera numerorum continue proportionalium, donec peruentum fuerit ad numerum cuius Index sit æqualis Indici dato 5. vt hic vides:

1	0
8	1
64	2
512	3
4096	4
32768	5

Vltimus factus 32768 erit per primum Lemma idem cum facto ab altero numero 32 toties in seipsum ducto, vt factus vltimus in hac serie tertia habeat illum quem quærimus Indicem, qui in prima serie data debet adscribi octonario. Si igitur hunc numerum 32768 dividamus (eo quo dictum est modo in Lemmate secundo) per 32 datum (qui latus est tertiæ seriei) quoties fieri poterit, erunt quoti tres 1024. 32. 1. Erit idcirco 3, Index tam huius facti 32768 in hac tertia serie, vt hic videmus,

1	0
32	1
1024	2
32768	3

quam octonarij in serie illa prima data, in qua siti sunt illi dati duo numeri.

Vbi notandum, tres esse hic diversas continue proportionalium series, in quibus omnibus primum locum occupat Vnitas. Prima, è qua desumpti sunt dati duo numeri, vna cum Indice alteri datorum adiuncto. Secunda, quæ fit per multiplicationem illius numeri (cuius Index quæritur) donec vltimi facti Index æquetur Indici alterius numeri dato. Tertia vero quæ per divisionem Facti in præcedente serie vltimo inventi, integra, si opus esset describi posset. in hac, Index facti divisi, æquatur numero quotorum, estque idem Index ille quem quærimus, qui in pri-

ma

ma ſerie debet adiungi illi numero cuius index antea erat ignotus. vt videmus in Lemmate primo.

Lemma quartum. ſeu Modus, quo factus quilibet in ſerie continue proportionalium inveniri poſſit, omiſſis factis plurimis intermedijs.

In ſerie numerorum ab vnitate continue proportionalium, ſi numerus quilibet alterum multiplicet, factus in eadem ſerie continuata ſitus erit: eiuſque Index erit aggregatum Indicum datorum. vt in hac ſerie,

1	0
2	1
4	2
8	3
16	4
32	5
64	6
128	7
256	8
512	9
1024	10

ſi quaternarius multiplicet 256 factus erit 1024, huius autem facti Index erit 10, ſumma Indicum 2 & 8, qui factoribus 4 & 256 adiunguntur.

Idcirco, ſi numerus ſeipſum multiplicet, Index facti erit duplus Indicis qui lateri tribuitur. vt 16, 16^ies ſunt 256, cuius facti index eſt 8, lateris autem Index eſt 4.

Lemma quintum. ſeu Modus, quo numerus notarum in omni facto haberi poterit, licet notæ omnes non ſint adſcriptæ.

Quot ſunt notæ in vtroque factore, totidem erunt in facto. niſi forte factus a primis notis verſus ſiniſtram in vtroque factore, vnica nota exprimi poterit. hoc quoties contigerit, numerus notarum in facto, vnitate ſuperatur à numeris notarum in factoribus. vt ſi 68 multiplicentur per 26, factus 1768 notis ſcribitur quatuor: totidem ſcilicet quot inſunt factoribus. at ſi 14 multiplicent 68, factus 952 tribus ſcribitur notis, licet in his factoribus, non minus quam in illis, ſint quatuor notæ.

Primus modus inveniendi Logarithmum cuiuſcunque numeri propoſiti.

Ponamus omnes quotquot ſunt numeros, in vnica ſerie numerorum ab vnitate continue proportionalium eſſe deſcriptos, & Indices ijſdem appoſitos eſſe hos ipſos quos quærimus Logarithmos. atque ex hac infinita ſerie, ſumantur duo numeri, quorũ primus ſit Denarius, cuius Index eſt 1.00000.00000.0000: reliquus ſit Binarius (vel alius quilibet) cuius Index ignoratur & quæritur. Præter hanc primam ſeriem quam appellamus infinitam, è qua deſumpti ſunt hi duo numeri, ſecunda ſeries per tertium Lemma inſtitui debet per continuam multiplicationem Binarij in ſeipſum & in factos à ſeipſo. & continuanda eſt hæc ſeries, donec Index vltimi facti, æquetur Denarij Indici dato in prima illa ſerie infinita. verum vt inſuperabile illud tot multiplicationum tædium vitetur, plurimis intermedijs numeris omiſſis, ſecundum continue proportionalium leges, per quartum Lemma huius capitis, præcipui facti quærantur, vna cum eorum Indicibus, donec vltimus factus quæſitus cum ſuo indice inventus fuerit. quem integrum adſcribere non erit neceſſarium, ſed tantum aliquot notas verſus ſiniſtram, amputatis & abiectis reliquis: ita tamen, vt per quintum Lemma, notus ſit numerus omnium nota-

Hæc prima ſeries ideo dicitur infinita, non quod omnes omnino numeros comprehendat, ſed quod plurimos. cogitamus enim inter vnitatem & denarium ſitos eſſe 99999.99999.9999 diſtinctos numeros cõtinue proportionales, quod ex Indice Denarij qui æquatur numero intervallorum inter eundem & vnitatem ſit manifeſtum. inter hos intermedios ſiti ſunt numeri binario, ternario reliquiſque integris denario minoribus fere æquales, qui cum tantillum diſtant ab integris, tam ipſi pro integris ſumantur, quam eorum Indices pro eorundem Logarithmis.

notarum, quibus totus factus si integer poneretur describi debuit.

Ductus igitur Binarius in seipsum facit quatuor, cuius Index 2. Quaternarius in seipsum facit 16, cuius index 4. 16 item in seipsum facit 256, cuius Index 8, deinde hic factus ductus in 4 facit 1024, cuius Index 10 æquatur Indicibus facientium. notæ autem in hoc facto vltimo sunt 4. quæ omnia sunt manifestissima per quartum & quintum Lemmata proxime præcedentia. vt hic vides:

1	0		
2	1		
4	2	1	
16	4	2	Tetras prima.
256	8	3	
1024	10	4	
10,48576	20	7	
109,95116,27776	40	13	Tetras secunda.
12089,25819,61463	80	25	
12676,50600,22823	100	31	
16069,38044,25899	200	61	
25822,49878,08685	400	121	Tetras tertia.
66680,14432,87940	800	241	
10715,08607,18618	1000	302	
11481,30695,27407	2000	603	
13182,04093,43051	4000	1205	Tetras quarta.
17376,62031,93695	8000	2409	
19950,63116,87912	10000	3011	
	Indices.	Numerus notarum.	

Isti autem quatuor numeri 4. 16. 256. 1024 constituunt Tetradem primam. Deinde alia Tetras instituenda est, cuius primus numerus fit multiplicatione vltimi numeri Tetradis præcedentis in seipsum. Secundus item est quadratus primi, & tertius secundi; quartus autem fit per multiplicationem primi, huius Tetradis in tertium. atque horum quatuor Indices sunt 20. 40. 80. 100. Sunt autem in horum primo notæ septem, in secundo 13, in tertio 25, in quarto 31. Eodem modo reliquas Tetradas absoluo donec vltimæ Tetradis numerus quartus habeat Indicem 1,00000,00000,0000. numerus autem notarum in eodem quarto erit 30102,99956,6399. Atque ad hunc modum habemus circiter quinquaginta septem præcipuos numeros in serie secunda ponendos.* Horum primus, qui latus est & radix reliquorum est binarius. Vltimus autem habet eundem Indicem quem in prima illa serie infinita Denario assignavimus.

Non illos integros quidem, neque enim est hoc vel necesse vel possibile, sed vnius cuiusque aliquot notas versus sinistram, quæ nobis indicare poterunt numerum notarum in vnoquoque. ipsas autem primas cuiusque tetradis notas paulò diligentius describendas curavimus, quia verus notarum numerus in vltimo facto alter haberi non poterit. vt experiundo videmus in numeris B signatis, vbi vnitate detracta ab vltimo numero Tetradis primæ 1024, provenit numerus notarū in vltimo numero Tetradis tertiæ 3013 qui esse debuit vt antea inventus fuit 3012.

B		
1023	10	4
2046529	20	7
4095223	40	13
8199513	80	25 Tetr. 2.
8255332	100	31
32575870	200	61
82483363	400	121 Tetr. 3.
246167075	800	241
729718508	1000	301
	Indic.	Numerus notarum.

Tertia series per secundum Lemma describi potuisset integra, si haberemus vltimum factum secundæ seriei, qui omnino æqualis est vltimo facto huius tertiæ seriei per primum Lemma. numerus autem notarum in hoc vltimo facto vtriusque seriei notus est, idemque Indicem huius facti in tertia serie, & Binarij in illa prima serie infinita, superat tantum vnitate. nam vt hunc Indicem in tertia serie inveniamus, continue dividendus est vltimus factus per Denarium datum numerum, cuius Index etiam datus fuit. Quod si Denarius quemlibet diviserit, Quotus erit pars decima divisi, id est idem plane cum diviso, dempta tantum vnica nota (vt 4357 divisi per 10 dant

dant quotum 435) & idcirco numerus quotorum vel diuiſionum, vnitate tantum minor erit numero notarum in diuiſo. quotorum autem numerus oſtendit, diſtantiam diuiſi ab Vnitate, vel eiuſdem diuiſi Indicem in hac tertia ſerie: qui idem eſt cum illo Indice in prima illa ſerie infinita, qui lateri ſecundæ ſeriei, id eſt Binario debet adſcribi. quique eſt idem ille quem quærimus binarij Logarithmus. nempe 30102,99956,6398.

Idem modus per quem invenimus hunc Binarij Logarithmum alterius cuiuſcunque numeri Logarithmum ſuppeditabit. vt Septenarij. cuius diſquitionis principium vides in numeris *C*. numerus autem notarum in vltimo facto (cuius Index erit 10000,00000,00000) erit 845098040014 27, qui dempta vnitate æquatur Logarithmo Septenarij.

C			
7	1	1	
49	2	2	
2401	4	4	Tetras prima.
4764801	8	7	
282475249	10	9	
79792266297612	20	17	
6366805760909040		34	Tetras ſecunda.
40536215597144 80		68	
3234476509624 7 100		85	
	Indices	numerus notarum	

Atque hic modus primus eſto, per quem cuiuſcunque numeri propoſiti Logarithmum invenire poterimus. Sequitur alter qui videtur facilior.

Caput VI.

SVpra oſtendimus Cap. 3. rationales eſſe Logarithmos omniũ numerorum poſitorum in eadem continue proportionalium ſerie cum Vnitate & Denario, eoſque pro ſitus dati ratione facillime poſſe inveniri. Quærantur idcirco è ſatis magna continue proportionalium ſerie, inter Vnitatem & Denarium, aliquot præcipui, quos appellare poterimus continue Medios; quia eorum quilibet eſt medius homogeneus inter Vnitatem & numerum in eadem ſerie ab vnitate proxime remotiorem. vt videmus in numerus *A B C* ſignatis. *Numeri continuè Medij.*

A	*B*	*C*
1	1	1
2	$\frac{2}{2}$	2
4	$\frac{4}{3}$	8
16	$\frac{16}{12}$	512
256	$\frac{256}{162}$	134217728
65536	$\frac{65536}{43046721}$	
4294967296		

Vbi in *A* & *B* quilibet eſt latus Quadraticum, & in *C* latus Cubicum proxime remotioris.

	D *Numeri continue Medij inter Dendriũ & Vnitatẽ.*	E *Logarithmi rationales.*
0	1	1,000
1	31622,77660,16837,93319,98893,54	0,50
2	17782,79410,03892,28011,97304,13	0,25
3	13335,21432,16332,40256,65389,308	0,125
4	11547,81984,68945,81796,61918,213	0,0625
5	10746,07828,32131,74972,13817,6538	0,03125
6	10366,32928,43769,79972,90627,3131	0,01562,5
7	10181,51721,71818,18414,73723,8144	0,00781,25
8	10090,35044 84144,74377,59005,1391	0,00390,625
9	10045,07364,25446,25156,64670,6113	0,00195,3125
10	10022,51148,29291,29154,65611,7367	0,00097,65625
11	10011,24941,39987,98758,85395,51805	0,00048,82812,5
12	10005,62312,60220,86366,18495,91839	0,00024,41406,25
13	10002,81116,78778,01323,99249,64325	0,00012,20703,125
14	10001,40548,51694,72581,62767,32715	0,00006,10351,5625
15	10000,70271,78941,14355,38811,70845	0,00003,05175,78125
16	10000,35135,27746,18566,08581,37077	0,00001,52587,89062,5
17	10000,17567,48442,26738,33846,78274	0,00000,76293,94531,25
18	10000,08783,70363,46121,46574,07431	0,00000,38146,97265,625
19	10000,04391,84217,31672,36281,88083	0,00000,19073,48632,8125
20	10000,02195,91867,55542,03317,07719	0,00000,09536,74316,40625
21	10000,01097,95873,50204,09754,72940	0,00000,04768,37158,20312,5
22	10000,00548,97921,68211,14626,60250,4	0,00000,02384,18579,10156,25
23	10000,00274,48957,07382,95091,25449,9	0,00000,01192,09289,55078,125
24	10000,00137,24477,59510,83282,69572,5	0,00000,00596,04644,77539,0625
25	10000,00068,62238,56210,25737,18748,2	0,00000,00298,02322,38769,53125
26	10000,00034,31119,22218,83912,75020,8	0,00000,00149,01161,19384,76562,5
27	10000,00017,15559,59637,84719,93879,1	0,00000,00074,50580,59692,38281,25
28	10000,00008,57779,79451,03051,17588,8	0,00000,00037,25290,29846,19140,625
29	10000,00004,28889,89633,54198,42901,3	0,00000,00018,62645,14923,09570,3125
30	10000,00002,14444,94793,77767,42970,4	0,00000,00009,31322,57461,54785,15625
31	10000,00001,07222,47391,14050,76926,8	0,00000,00004,65661,28730,77392,57812,5
32	10000,00000,53611,23694,13317,14831,4	0,00000,00002,32830,64365,38696,28906,25
33	10000,00000,26805,61846,70731,51508,7	0,00000,00001,16415,32182,69348,14453,125
34	10000,00000,13402,80923,26383,99277,7	0,00000,00000,58207,66091,34674,07226,5625
35	10000,00000,06701,40461,60946,55519,6	0,00000,00000,29103,83045,67337,03613,28125
36	10000,00000,03350,70230,79911,91730,0	0,00000,00000,14551,91522,83668,51806,64062,5
37	10000,00000,01675,35115,39815,61857,6	0,00000,00000,07275,95761,41834,25903,32031,25
38	10000,00000,00837,67557,69872,72426,9	0,00000,00000,03637,97880,70917,12951,66015,625
39	10000,00000,00418,83778,84927,59087,9	0,00000,00000,01818,98940,35458,56475,83007,8125
40	10000,00000,00209,41889,42461,60262,5	0,00000,00000,00909,49470,17729,28237,91503,90625
41	10000,00000,00104,70944,71230,25311,0	0,00000,00000,00454,74735,08864,64118,95751,95312
42	10000,00000,00052,35472,35614,98950,4	0,00000,00000,00227,37367,54432,32059,47875,97656
43	10000,00000,00026,17736,17807,46048,9	0,00000,00000,00113,68683,77216,16029,73937,98828
44	10000,00000,00013,08868,08903,72167,8	0,00000,00000,00056,84341,88608,08014,86968,99414
45	10000,00000,00006,54434,04451,85869,75	0,00000,00000,00028,42170,94304,04007,43484,49707
46	10000,00000,00003,27217,02225,92881,337	0,00000,00000,00014,21085,47152,02003,71742,24853
47	10000,00000,00001,63608,51112,96427,283	0,00000,00000,00007,10542,73576,01001,85871,12426
48	10000,00000,00000,81804,25556,48210,295	0,00000,00000,00003,55271,36788,00500,92935,56213
49	10000,00000,00000,40902,12778,24104,311	0,00000,00000,00001,77635,68394,00250,46467,78106
50	10000,00000,00000,20451,06389,12051,946	0,00000,00000,00000,88817,84197,00125,23233,89053
51	10000,00000,00000,10225,53194,56025,921 *L*	0,00000,00000,00000,44408,92098,50062,61616,94526
52	10000,00000,00000,05112,76597,28012,947 *M*	0,00000,00000,00000,22204,46049,25031,30808,47263
53	10000,00000,00000,02556,38298,64006,470 *N*	0,00000,00000,00000,11102,23024,62515,65404,23631
54	10000,00000,00000,01278,19149,32003,235 *P*	0,00000,00000,00000,05551,11512,31257,82702,11815

Quærantur autem huiuſmodi Continue Medij inter Denarium & Vnitatem, quorum primus erit *l* 10. nempe 3162277601683793319988935 4, id eſt latus denarij, vel medius proportionalius inter 10 & 1. deinde quæro latus lateris nuperrime inventi, id eſt *ll* 10. nempe 1778279410038922801197304 13. tertio pergo inveſtigare latus iſtius lateris, *lll* 10. 1333521432163324025665-38931. eodemque ſeruato operationis modo progredior, donec tota ſeries continue mediorum, vnà cum Denario, contineat numeros diſtinctos quinquaginta quinque, quos vides ſignari litera *D*: quibus è regione locantur Logarithmi rationales ijſdem conuenientes, ſignati *E*.

Numerorum continue mediorum minimus eſt 10000.00000.00000.0127-8,19149,32003,23441,65 huius Logarithmus biſecando inventus eſt 0.00000.00000.00000.05551,11512,31257,82702,11815,83. patuit enim per 2.ax.c.2. Logarithmum lateris, dimidium eſſe illius Logarithmi qui quadrato tribuitur, quia ex multiplicatione lateris in ſeipſum fit Quadratus. & idcirco quilibet horum Logarithmorum duplus eſt proxime minoris. Cum autem notæ ſignificativæ, quæ vnitati poſt quindecim cyphras ſunt adiectæ, ſint dimidiæ notarum proxime præcedentium; tam in continue medijs, quam in Logarithmis: ipſi Logarithmi proportionem eandem decreſcendo ſervare videntur, quam illi numeri quibus ſunt adiuncti. & idcirco, ſi qui numeri, eouſque decreverint, vt poſt vnitatem cyphræ quindecim in proximo locatæ fuerint, reliquæ notæ ſignificativæ poſt cyphras adiectæ, veros Logarithmos vel veris proximos nobis exhibebunt, per proportionis illam auream regulam. quæ omnia vt fiant magis manifeſta, numeros aliquot continue proportionales vna cum ſuis Logarithmis adſcribere viſum eſt, ex illis qui ſunt proximi numeris *L M N* & *P*: ea inter proximos ſervata ratione, quæ eſt Vnitatis ad *P*, minimum è continue medijs. qui omnes fere creſcunt æqualiter, pro ratione diſtantiæ inter ſe. quod eorum etiam Logarithmi ex definitionis vi facere tenentur. Idcirco, ſi contigerit dari numerum adeo exiguum, vt intra Vnitatem & numerum *L* locari debeat, licet non ſit vllo modo cenſendus in numero proportionalium, erit tamen eius Logarithmus inventu facilis, per proportionis regulam. Cum in his numeris adeo exiguis creſcant aut decreſcant Logarithmi pro ratione notarum ſignificativarum, quæ proximo poſt cyphras loco ſitæ ſunt. vt ſit datus numerus *X* 10000,00000,00000,01. aio hos quatuor numeros eſſe proportionales.

pro-port.	12781,91493,20032,34416,5	Notæ ſignificativæ poſt quindecim cyphras vnitati adijciendæ.
	1 - - - - - - - - - - - - - - - -	
	55511,15123,12578,27021,18158	Notæ ſignificativæ poſt Characteriſticam (quæ eſt cyphra) & alias ſexdecim cyphras in Logarithmis ſcribendæ.
	43429,44819,03251,804 - - - - -	

	Numeri continue proportionales ſupra Vnitatem.	*Logarithmi.*
α	1 Vnitas	0,00000
P	10000,00000,00000,01278,19149,32003,23442	0,00000,00000,00000,05551,11512,31257,82702,12
N	10000,00000,00000,02556,38298,64006,47047	0,00000,00000,00000,11102,23024,62515,65404,24
β	10000,00000,00000,03834,57447,96009,70815	0,00000,00000,00000,16653,34536,93773,48106,35
M	10000,00000,00000,05112,76597,28012,94747	0,00000,00000,00000,22204,46049,25031,3[illegible]8,47
γ	10000,00000,00000,06390,95746,60016,18842	0,00000,00000,00000,27755,57561,56289,13510,59
δ	10000,00000,00000,07669,14895,92019,43101	0,00000,00000,00000,33306,69703,87546,96212,71
ε	10000,00000,00000,08947,34045,24022,67523	0,00000,00000,00000,38857,80586,18804,78914,83
L	10000,00000,00000,10225,53194,56025,92108	0,00000,00000,00000,44408,92098,50062,61616,95
X	10000,00000,00000,01	0,00000,00000,00000,04342,94481,90325,1804

Est igitur numeri *X* dati Logarithmus 0,00000,00000,00000,0434294-48190325180 4. Horum numerorum proportionalium prima nota est vnitas; reliquæ omnes notæ subsequentes, tam cyphræ quam significativæ, exprimunt nobis Numeratorem partium vnitati adijciendarum, quarum Denominator est illa ipsa vnitas, & cyphræ, reliquis illis notis numero equales. Numerus *X* non est inter nos proportionales numerandus: eius tamen Logarithmum diligentius exprimendum putavi; quia Logarithmi, qui per proportionis regulam quærendi sunt, huius ope facilius inveniantur quam alterius cuiusvis. cum reliqui horum proportionalium Logarithmi, nihil possint sine multiplicatione & divisione; hic autem sola multiplicatione totum negotium absolvit.

Caput. VII.

INventis hisce continue medijs inter Vnitatem & Denarium, vnà cum eorum Logarithmis rationalibus; aliorum omnium numerorum Logarithmi, horum ope inveniri poterunt, ad hunc modum.

Inter datum numerum (cuius Logarithmus quæritur) & vnitatem, quærantur continue medij, (vt in superiore capite) donec tandem inveniamus numerum adeo exiguum, vt Vnitas præcedat quindecim cyphras, quas totidem vel plures notæ significativæ sequantur. Deinde (vt ad finem præcedentis capitis ostendimus) hæ notæ significativæ, per proportionis regulam dabunt nobis quæsitum Logarithmum, illius numeri medij vltimo inventi. In priore autem illa continue mediorum serie, à primi numeri Logarithmo dato, bisecando devenimus ad vltimi medij Logarithmum quæsitum: hic contra, duplicando vltimi medij Logarithmum inventum, penultimi Logarithmum assequemur: eodemque modo reliquorum omnium; donec tandem dati primi numeri quæsitum Logarithmum nacti simus.

2
1414213562373 1
1189207115002 7
1090507732665 2
1044273782432 2
1021897148705 3
&c.

} numeri continue medij inter Vnitatem & Binarium.

Atque hic modus etiam in se habet molestiæ plus satis: nos autem eam conabimur aliqua ex parte minuere.

Cum enim antea accepimus, in continue proportionalibus, datis duorum quorumlibet Logarithmis, posse alterius cuiusvis, cuius situs à datis notus erit, Logarithmum inveniri: per Lemma 1. cap. 1. & Logarithmum divisi, æquari Logarithmis divisoris & quoti, per 3. ax. cap. 3. poterimus, loco dati numeri, alium substituere commodiorem, cuius Logarithmus inventus, dati etiam numeri Logarithmum ostendet. ad hunc modum. Multiplicetur datus numerus in seipsum, & in factos à seipso, donec inveniatur numerus *A*, cuius prima nota versus sinistram sit Vnitas, quam proximo in loco sequatur cyphra vna aut plures: deinde ille numerus dividatur, per numerum qui describitur per vnitatis notam & tot cyphras quot fuerint notæ in dividendo præter Vnitatem: tandemque inter quotum hunc & Vnitatem quærantur numeri continue medij, donec ad illos terminos pervenerimus, quos supra assignavimus, iuxta numerum *L*. Isti autem medij sunt & numero pauciores, & inventu faciliores, quam illi qui quærebantur inter datum numerum 2 & Vnitatem. Quæ omnia sunt exemplo illustranda.

Contin. proport.	Indices.
1	0
2	1
4	2
8	3
16	4
32	5
64	6
128	7
256	8
512	9
A 1024	10

Quærendus esto Logarithmus Binarij: fiat per multiplicatio-

nem

nem Binarij, ſeries continue proportionalium donec inveniatur 1024. *A.* is dividatur per 1000. *B.* quotus erit 1024, cuius Logarithmus vbi inventus fuerit, additus Logarithmo diviſoris, dabit Logarithmum numeri *A* diviſi 1024. per 3. ax. cap. 3. huius autem Logarithmi pars decima per Lemma 1. cap. 1. erit Logarithmus Binarij quæſitus.

Quærantur idcirco latus quoti inventi, reliquiq; continue medij, vſque dum pervenerimus ad quadrageſimum ſeptimum medium, inter datum quotum & Vnitatem. qui eſt 10000.00000.00000.01685160570539 4977. qui cum intra limites ſuperius conſtitutos iuxta *L* ſitus ſit, eius Logarithmus per auream regulam invenitur 0,00000,00000,00000,07318,55936,90623,9336.

propo-rt.	12781,93493,20032,34416 16851,60570,53949,77 - -	Notæ ſignificativæ poſt quindecim cyphras vnitati adijciendæ in numeris medijs.
	55511,15123,12578,27021 73185,59369,06239,368- -	Notæ ſignificativæ poſt characteriſticam & alias ſexdecim cyphras Logarithmis adijciendæ.

propo-rt.	1 - - - - - - - - - - - - 16851,60570,53949,77	Notæ Mediorum vt prius.
	43429-44819,03251,804 73185,59369,06239,368	Logarithmorum notæ vt prius.

A

B Diviſor 1000) 1024 (1024 Quotus

	Numeri continue medij.	*Logarithmi.*
	1024 -	0,01029,99566,39811,95265,27744
1 47	10119,28851,25388,13862,397	0,00514,99783,19905,97632,63872
2 46	10059,46743,74634,83266,5424	0,00257,49891,59952,98816,31936
3 45	10029,68964,498 7,87373,6268	0,00128,74945,79976,49408,15968
4 44	10014,83382,03790,41803,01838	0,00064,37472,89988,24704,07984
5 43	10007,41416,16998,35336,24906	0,00032,18736,44994,12352,03992
6 42	10003,70639,39821,00140,71761,5	0,00016,09368,22497,06176,01996
7 41	10001,85302,53059,10853,05827,77	0,00008,04684,11248,53088,00998
17 31	10000,00180,94275,48445,34363,95015,44	0,00000,00785,82432,85989,34375,977
27 21	10000,00000,17670,18930,57014,19482,62	0,00000,00000,76740,65708,97396,85154
37 11	10000,00000,00017,25604,42423,25943,477	0,00000,00000,00074,94204,79391,98911,283
47 1	10000,00000,00000,01685,16057,05394,977	0,00000,00000,00000,07318,55936,90623,9368

Hic habemus aliquot è continue medijs inter Vnitatem & 1024. totus eorum numerus eſt 47, quorum minimus & vnitati proximus ſit primus. huius Logarithmus invenitur eo modo qui traditur ad finem ſexti Capitis. reliquos vero inveniemus duplicando hunc inventum, reliquoſque per continuam duplicationem inventos, donec ad ipſius quoti 1024 Logarithmum perventum fuerit. vel, ſi viſum fuerit, omiſſis aliquot intermedijs, remotioris alicuius Logarithmum quærere; fiat ſeries numerorum ab vnitate continue proportionalium in ratione dupla, quibus adiungantur Indices vulgares. & ſumatur numerus, ſitus è regione Indicis illius, qui æquatur numero intervallorum inter datum Logarithmum & quæſitum, is numerus multiplicet datum Logarithmum, factus erit Logarithmus quæſitus. vt ſi proximus quæratur Logarithmus (quia vnicum eſt intervallum) binarius multiplicet; ſi ſecundus à dato, quaternarius; ſi decimus à dato, multiplicet 1024. quia huius numeri Index eſt 10: ſi quadrageſimus ſeptimus à dato, factor erit 140737488355328. exempli cauſa; primi medij datus Logarithmus multiplicetur per illum quadrageſimum ſeptimum numerum, factus erit Logarithmus dati Quoti; inter quem & primum ſunt 47 intervalla. Huius rei cauſa hæc eſt. Logarithmi hi ſunt

1	
2	1
4	2
8	3
16	4
32	5
64	6
128	7
256	8
512	9
1024	10
1048576	20
1073741824	30
1099511627776	40
140737488355328	47

continue proportionales in dupla ratione; id est, sunt his ipsis numeris proportionales. & idcirco, vt horum numerorum primus, ad vndecimum vel quadragesimum octauum: sic primus Logarithmus, ad vndecimum vel quadragesimum octauum Logarithmum.

Invento tandem Quoti Logarithmo, quærendus est Logarithmus Diuisi. qui habetur per 3. ax. cap. 2.

		Logarithmi.
pro-	- - - - 1	0,0000
port.	Diuisor. 1000	3,00000,00000,00000,00
	Quotus. 1024	0,01029,99566,39811,95
	Diuisus. 1024	3,01029,99566,39811,95

Est enim Logarithmus Diuisoris datus, per cap. 4. & per 2. ax. cap. 2. qui additus quoti Logarithmo invento, dat Logarithmum diuisi.

Cum autem Diuisus 1024, & datus 2, cuius Logarithmus quæritur, siti sint in eadem serie continue proportionalium ab vnitate, eorumque indices 10 & 1 sint dati: manifestum est per 1. ax. cap. 2. Diuisi Logarithmum decuplum esse Logarithmi quæsiti, qui Binario tribui debet. Est igitur Logarithmus Binarij. 0,30102,99956,63981,195.

Binarij Logarithmus inventus, Quinarij Logarithmum secum exhibebit. Sunt enim 2. 1. 10. 5. proportionales. ~~& per 2. Lem. cap. 1.~~ datis trium proportionalium Logarithmis, quarti proportionalis Logarithmus manifestus erit.

		Logarithmi.
pro-	2	0,30102,99956,63981,195
port.	1	0
	10	1,00000,00000,00000,000
	5	0,69897,00043,36018,805

Præter Quinarij Logarithmum, noti erunt Logarithmi omnium, qui quovis modo proveniunt ex multiplicatione, vel diuisione horum trium 2. 5. 10. inter se.

Ex multiplicatione Binarij solius in seipsum & in suos factos, 4. 8. 16. 32. 64. &c. item Quinarij in se & suos factos, 25. 125. 625. 3125. &c. Binarij in factos à Quinario, 250. 1250. 6250. &c. Binarij in Denarium 20. 200. 2000. 40. 400. 80. 800. &c.

Ex diuisione $2\frac{1}{2}, 1\frac{1}{4}, 12\frac{1}{2}, 6\frac{1}{4}, 1\frac{3}{5}, 3\frac{1}{5}, 6\frac{3}{5}$, &c. quæ omnia fiunt manifesta per 2 & 3. ax. cap. 2.

Proximo post Binarium & Quinarium loco venit Ternarius, cuius Logarithmus commodissime inveniri poterit per Logarithmam Senarij. quem quæro ad eum qui superius traditur modum. fiat igitur series continue proportionalium, in quibus 6 sit proximus vnitati, & sumatur 10077696, qui diuisus per 10000000 dat quotum 17007696, inter hunc quotum & vnitatem, quæro continue medios quadraginta sex, è quibus vnitati proximus est 10000,00000,00000,01099,85934,58815,571866, cuius Logarithmus per proportionis regulam 0,00000,00000,00000,04776,62844,78608,0304. atque hic Logarithmus quadragies sexies duplicatus, dabit 0,00336,12534,52792,69 Logarithmum Quoti 10077696. Cui Logarithmus diuisoris 7,00000,00000,0000 adiectus dabit 7,00336,12534,52792,69 Logarithmum diuisi 10077696. cuius pars nona (quia diuisi Index est 9) erit 0,77815,12503,83643,63 Logarithmus Senarij quæsitus, à quo si ablatus fuerit

Loga-

Logarithmus Binarij, reſtabit Logarithmus Ternarij. quæ omnia ſunt ijs conſentanea quæ hoc ipſo Capite traduntur ſuperius.

			Logarithmi.
1		Vnitas. 1 - - - -	0,00000
6 1	pro-	Diviſor. 10000000	7,00000,00000,00000,00
36 2	port.	Quotus. 10077696	0,00336,12534,52792,69
216 3		Diviſus. 10077696	7,00336,12534,52792,69
1296 4			
7776 5			
46656 6			
279936 7			
1679616 8			
10077696 9			

Indices numerorum.	10077696 - -	9 - - - - - - - - - - -	proportionales.
	6 - - - - - - -	1 - - - - - - - - - - -	
Logarithmi numerorũ	10077696 - -	7,00336,12534,52792,69	
	6 - - - - - - -	0,77815,12503,83643,63	

pro-	6.	0,77815,12503,83643,63	Logarith. 6. 2. 3.
port.	2.	0,30102,99956,63981,19	
	3.	0,47712,12547,19662,44	
	1.	00	

Caput VIII.

ATque ad hunc modum, cuiuſcunque numeri propoſiti Logarithmum, per continue Medios invenire poterimus. quos nobis lateris quadrati inventio ſuppeditat ſatis laborioſe. huius autem tanti laboris moleſtia minuetur plurimum per Differentias. modum in his ipſis Medijs oſtendam, quos *A* litera notavi, & quorum ope Senarij Logarithmum invenimus. Horum numerorum prima nota verſus ſiniſtram, deſignat Vnitatem; reliquæ exprimunt partes Vnitati adijciendas: vt ſupra ad finem ſexti Capitis monuimus. Has partes Vnitati adiectas, appello Differentiam primam: Differentiam ſcil. dati numeri ſupra vnitatem. Proximi numeri infra *A* poſiti, ſunt ſemiſſes Differentiarum primarum proxime præcedentium: & notantur $\frac{1}{2}$ *A*. ex iſtis ſemiſſibus auferendæ ſunt Differentiæ primæ ſupraſcriptæ, ſcribanturque numeri reliqui inferius, qui notati litera *B*, appellentur Differentiæ ſecundæ. Numeri autem infra *B* poſiti ſunt quadrantes Differentiarum ſecundarum proxime præcedentium: & notantur $\frac{1}{4}$ *B*. è quibus numeri *B* ablati relinquunt Differentias tertias *C*. & hæ tertiæ ablatæ ex octavis præcedentium tertiarum notatis *C* relinquunt Differentias quartas *D*. Eodem modo inveniuntur quintæ Differentiæ *E*, ſextæ *F*, ſeptimæ *G*, &c. ablatis quartis *D* è decimis ſextis quartarum præcedentium: quintis *E*, è triceſimis ſecundis quintarum: & ſextis *F*, è ſexageſimis quartis ſextarum, &c.

Hæ omnes differentiæ habentur facillime è continuata ſerie numerorum continue Mediorum; earum autem vſus non multum conducit, in numeris quorum Differentia prima, valet centeſimam aut milleſimam partem Vnitatis. Sunt enim & nimis multæ & earum aliquæ nimis operoſæ. Verum cum Vnitatis notam primo loco poſitam, tres vel plures cyphræ proxime ſequantur, poterunt hæ Differentiæ magnam ſuſcepti laboris partem minuere. vti

in

α		10077,696	
β	46	10038,77283,33696,24566,38465,51	
γ	45	10019,36766,13694,66167,58702,29	
δ	44	10009,67914,63909,90172,88907,20	
ε	43	10004,83840,26884,66298,54925,35	A
ζ	42	10002,41890,87882,46856,38087,27	A
	ν	2,41920,13442,33149,27462,67	½A
		29,25559,86292,89375,40	B
η	41	10001,20938,12639,71345,94391,94	A
		1,20945,43941,23428,19043,63	½A
		7,31301,52082,24651,69	B
	ζ#	7,31389,96573,22343,85	¼B
		88,44490,97692,15	C
ϛ	40	10000,60467,23505,53096,80160,95	A
		60469,06319,85672,97195,97	½A
		1,82814,32576,17035,92	B
	σ	1,82825,38020,56162,92	¼B
		11,05444,39127,00	C
		11,05561,37211,52	⅛C
		116,98084,52	D
ϡ	39	10000,30233,16050,56577,59647,94	A
		30233,61752,76548,40080,02	½A
		45702,19970,80432,08	B
		45703,58144,04258,98	¼B
	τ	1,38173,23826,90	C
		1,38180,54890,87	⅛C
		7,31063,97	D
		7,31130,28	1/16D
		66,31	E
ϗ	38	10000,15186,46599,90567,29504,88	A
		15116,58025,28288,79823,97	½A
		11425,37721,50319,09	B
	υ ¶	11425,54992,70108,02	¼B
		17271,19788,93	C
		17271,65478,36	⅛C
	Hucusque Differentiæ mi-	45689,43	D
	nores sunt inventæ per sub-	45691,50	1/16D
	ductionem maiorum è parti-	2,07	E
	bus homogearum præceden-	2,07	1/32E
	cium.		
	Hic, maiores Differentiæ relin-	65	1/32E
	quuntur per subductionem	2855,589	1/16D
	minorum è partibus proxi-	2855,524	D
	me superioris speciei.	2158,89973,616	⅛C
		2158,87118,092	C
	φ	2856,34430,37579,772	¼B
		2856,32271,50461,680	B
		7558,23299,95283,64752,440	½A
λ	37	10000,07558,20443,63012,14290,706	A
		2	1/32E
		178,470	1/16D
		178,468	D
	χ	269,85889,762	⅛C
		269,85711,294	C
		714,08067,87615,420	¼B
		714,07798,01904,126	B
		3779,10221,81506,07145,380	½A
μ	36	10000,03779,09507,73708,05241,254	A

Poterunt etiam hæ differentiæ inveniri pro dato quolibet numero, licet continue Medij nulli dati fuerint. Nam si dati numeri differentia supra vnitatem, seipsam suosque factos aliquoties multiplicet, vt eiusdem differentiæ aliquot potestates habeantur, nempe Quadratus, Cubus, Biquadratus, &c. erit Differentia secunda semissis Quadrati. reliquæ etiam vt hic vides.

Differentia.

Secunda ½(2)
Tertia ½(3) + ⅛(4)
Quarta ⅞(4) + ⅞(5) + 7/16(6) + ⅛(7) 1/64(8)
Quinta 2⅝(5) + 7(6) + 10 15/16(7) + 12 63/128(8) + 11 11/64(9) + 7 105/128(10)
Sexta 13 9/16(6) + 81⅜(7) + 296 87/128(8) + 834 43/128(9) + 1953 285/512(10)
Septima 122 1/16(7) + 1510 67/128(8) + 11475 73/128(9) + 68372 79/1048(10)
Octava 1937 95/128(8) + 47151 93/128(9) + 706845 1495/8192(10)
Nona 54902 89/128(9) + 2558465 235/32768(10)
Decima 2805527 (10)

Horum omnium specimen in numeris hic positis exhibetur.

In istis autem extremis maxime cavendum, ne potestatum aliqua alieno loco ponatur, propius accedens vel longius recedens ab Vnitatis loco quam oportuit. Cum enim Vnitas, Latus, Quadratus, Cubus, &c. sint continue proportionales; si latus fit pars centesima Vnitatis, secundum ab ea occupans locum: erit Quadratus pars centesima Lateris, in loco quarto ab Vnitate ponendus, & quo longius progredimur, eo remotius locandæ sunt potestates subsequentes. vt vides * * *.

10000,00000,000	Vnitas.	
Latus	15116,46599,90567,29504,88	(1)
Quadratus	22850,75443,00638,16726	(2)
Cubus	34542,26523,94854,62	(3)
Biquadratus	52215,69780,22288	(4)
	78931,68205	(5)
	1,19316,81	(6)
* * *	18036	(7)

½(2) - - - 11425,37721,50319,08363 B

⅝(3) - - - - 17271,13261,97427,3
⅛(4) - - - - - - 6526,96222,5
½(3)+⅛(4) —— 17271,19788,93649,8 C

¶

⅞(4) - - - - - 45688,73557,7
⅞(5) - - - - - - - 69065,2
7/16(6) - - - - - - - - - 522
⅞(4)+⅞(5)+7/16(6) - - - 45689,42623,4 D

2⅝(5) - - - - - 2,07195,66
7(6) - - - - - - 8,351
2⅝(5)+7(6) - - 2,07204,01 E

in exemplo adscripto videmus. in quo numeri continue Medij, istas nobis per Divisionem & Subductionem ministrant Differentias, donec perventum sit ad ¶: postea vero, hæ Differentiæ pariunt ipsos continue medios. nam $\frac{6}{5}$ pars tricesima secunda numeri *E* 207, ablata è numero 2855589, parte decima sexta numeri *D* 4568943, relinquit $2855\frac{5}{24}$ numerum *D*, vel differentiam quartam. Eadem hæc differentia quarta *D*, ablata è parte octava *C* prioris, relinquit ipsam Differentiam tertiam *C*. quæ ablata è quadrante superioris *B*, relinquit ipsam *B*. atque eadem *B* ablata è semisse prioris *A*, relinquit ipsam *A*. quæ adiecta Vnitati, est medius quæsitus 1000,07558,20443,63012,14290,760. Eodem modo reliquos omnes Medios subsequentes per huiusmodi Differentias inveniemus, progrediendo donec tandem omnes differentiæ paulatim deficiant præter primas, quæ cum reliquæ defecerint, omnino æquabuntur semissibus primarum præcedentium. reliqua vero sunt peragenda per proportionis regulam: vt supra.

Caput IX.

POst inventos Logarithmos horum numerorum 1. 2. 3. 5. 10, & per 1. & 2. ax. cap. 2. omnium ex mutua horum multiplicatione vel divisione provenientium: restat vt reliquorum primorum Logarithmos quæramus. quorum investigatio eadem fere erit quæ antea, aliquanto tamen facilior. Sumantur enim duo numeri compositi, quorum maior minorem vnitate tantum superat; & sit primus, factus à dato (cuius Logarithmus quæritur) ducto vel in seipsum, vel in numerum cuius Logarithmus datus erit: secundi vero Logarithmus sit datus. Atque vt huiusmodi duos compositos facilius consequamur, sumatur primus ille cuius Logarithmus quæritur, cum duobus vtrinque proximis, qui semper sunt compositi. vel loco primi, sumatur multiplus eiusdem, cum duobus vtrinque, vel ex altera parte proximis, horum medius in seipsum ductus, facit numerum vnitate superantem factum à circumpositis. per 5. p. 2. lib. Eucl. Factus autē minor maiorem dividat, & per continue medios inter quotum & vnitatem, quæratur Logarithmus quoti, vt antea capite septimo ostendimus. Exempli gratia: Quadratus septenarij (cuius Logarithmus quæritur) 49 in seipsum ductus facit 2401 factus autem ab vtrinque proximis 48 & 50 est 2400. hic si maiorem dividat, quotus erit $1000\frac{1}{3}$ vel 1000416666666666666667, inter quem & vnitatem, minimus quadraginta quatuor continue Mediorū est 10000,00000,0000,00236,79824,90433,36405. cuiu Logarithmus 0,00000,00000,00000,01028,40172,88387,29715, qui quadragies quater duplicatus, vel ductus in 17592186044416, dabit 0,00018,09183,45421,30 Logarithmum quoti $1000\frac{1}{3}$, qui additus Logarithmo Divisoris 2400, dabit Logarithmum Divisi 2401, cuius pars quarta est Logarithmus Septenarij quæsitus. totius operationis modum hic vides. ratio omnium è secundo capite petenda.

Factores	6	L 0,77815,12503,83643,63
	8	L 0,90308,99869,91943,57
Factus	48	L 1,68124,12373,75587,20
Factores	5	L 0,69897,00043,36018,81
	10	L 1,00000,00000,00000,00
Factus	50	L 1,69897,00043,36018,81
Factores	48	L 1,68124,12373,75587,20
	50	L 1,69897,00043,36018,81
Divisor. factus.	2400	L 3,38021,12417,11606,01
Quotus.	$1000\frac{1}{3}$	0,00018,09183,45421,30
Divisus.	2401	3,38039,21600,57027,31
Biquadratus.	2401	3,38039,21600,57027,31
Quadratus.	49	1,69019,60800,28513,65
Latus.	7	0,84509,80400,14256,82

Atque ad hunc modum invenire poterimus Logarithmos omnium primorum numerorum: inter quos primo loco occurrunt illi, qui sunt centenario minores: quos hic vides suo ordine positos, vna cum numeris compositis, quorum ope commodissime illos quos quærimus Logarithmos assequemur.

	Factores	Facti	Dividendi	Divisores	Quoti
	7.14	98			
11.	11. 9	99	9801	9800	1000102040816326530 6
	10.10	100			
	7.50	350			
13.	13.27	351	123201	123200	1000008116883116883116 8
	16.22	352			
	17.26	442			
17.	21.21	441	194481	194480	1000005141916906622783 8
	11.40	440			
	17.19	323			
19.	18.18	324	104976	104975	1000009526077637532745 89
	13.25	325			
	13.30	390			
23.	23.17	391	252881	152880	1000006541 07
	28.14	392			
	23.24	552			
29.	29.19	551	303601	303600	1000003293807
	55.10	550			
	19.18	342			
31.	31.11	341	116281	116280	1000008599931
	17.20	340			
	37.27	999			
37.	100.10	1000	1000000	999999	1000001000001000001000 0
	91.11	1001			
	54.22	1188			
41.	41.29	1189	1413721	1413720	1000007
	70.17	1190			
	90.11	990			
43.	43.23	989	978121	978120	1000001 2
	52.19	988			
	47.21	987			
47.	52.19	988	976144	976143	1000001 2
	43.23	989			
	43.16	688			
53.	53.13	689	474721	474720	1000002
	23.30	690			
	66.17	1122			
59.	59.19	1121	1256641	1256640	
	56.20	1120			
	43.27	1161			
61.	29.40	1160	1345600	1345599	
	61.19	1159			
	67.23	1541			
67.	77.20	1540	2371600	2371599	
	57.27	1539			
	71.29	2059			
71.	49.42	2058	4235364	4235363	
	121.17	2057			
	54.23	1242			
73.	73.17	1241	1540081	1540080	
	31.40	1240			

	Factores	Facti	Dividendi
	79.18	1422	
79.	49.29	1421	2019241
	71.20	1420	
	49.22	1078	
83.	83.13	1079	1164241
	27.40	1080	
	55.21	1155	
89.	34.34	1156	1336336
	89.13	1157	
	97.11	1067	
97.	82.13	1066	1136356
	71.15	1065	

Alterum exemplũ idem illuſtrabit. Sit quęrendus Logarithmus numeri 17.

Factores	Facti	Dividendus	Diviſor	Quotus
7.17	119.*A*	14400	14399	10000,69449,26731,02298,77074,79686.
17. 10.12	120.*B*			
11.11	121.*C*			

Logarithmus Quoti per continue medios inventus 0,00003,01603,8626-6,27349,qui ablatus è Logarithmo dividendi 14400 relinquit Logarithmum diviſoris 14399, & eâdem de cauſâ, Logarithmus numeri *C*, ablatus è Logarithmo Diviſoris, relinquit Logarithmum numeri *A*, qui æquatur Logarithmis facientium 7 & 17. totam operationem ob oculos poſitam hic vides:

		Logarithmi.
Factores	10	1,00000,00000,00100,00000
	12	1,07918,12460,47624,82808
Latus. Factus	120	2,07918,12460,47624,82808
Quadratus	14400	4,15836,24920,95249,65616
Latus	11	1,04139,26851,58226,17055
Quadratus	121	2,08278,53703,16452,34110
Diviſus	14400	4,15836,24920,95249,65616
Quotus	10000 9644926	0,00003,01603,86266,27349
Factus. Diviſor	14399	4,15833,23317,08983,38267
Factores	121	2,08278,53703,16452,34110
Factus	119	2,07554,69613,92531,04157
Factores	7	0,84509 80400,14256,83080
	17	1,23044,89213,78274,21077

Caput. X.

AD hunc modum invenire poterimus, omnium integrorum numerorum Logarithmos, ſive ſint primi ſiue compoſiti. Superſunt Partes, quas aliqui minutias appellant, quæ ſuos etiam habent Logarithmos. Sunt autem Partes proprie ſic dictæ numeri minores Vnitate, quas licet Eucl. 2. def. lib. 7. excludere videatur à natura numeri; tamen, cum per Partes ſæpiſſime ſatis appoſite reſpondemus quæſtioni de numero; quæ additæ, quandoque adęquant quandoque ſuperant numernm multitudinis; ad eumque, certam habeant & manifeſtam rationem: manifeſtum eſt, eas eſſe numero multitudinis homogeneas, & idcirco inter numeros cenſendas. Partes igitur, hoc in loco, paulo generalius ſumantur, pro numero quolibet, qui partium formam induens, per numeratorem & denominatorem deſcribitur: ſive ſit integer, vt $\frac{7}{7}$ $\frac{12}{4}$; ſive mixtus, cum integris partes adhæſerint, vt $\frac{5}{4}$ $\frac{13}{5}$; ſive partes proprie ſic dictæ, minores ſcilicet vnitate, vt $\frac{3}{4}$ $\frac{7}{10}$. In his omnibus, eadem eſt ratio Denominatoris ad Numeratorem, quæ eſt vnitatis ad datas partes. eſt enim factus à Numeratore in Vnitatem, æqualis facto à denominatore in ipſas partes. & idcirco per 20.p.7.Eucl. ſunt proportionales.

4	4	5	Denominator.	
pro- 3	pro- 5	pro- 13	Numerator.	
port. 1	port. 1	port. 1	Vnitas.	
$\frac{3}{4}$	$\frac{5}{4}$	$\frac{13}{5}$	Partes.	

Datarum partium Logarithmum invenire.

Si Logarithmus Denominatoris auferatur è Logarithmo Numeratoris, reſtabit Logarithmus Partium.

Cum enim in quatuor proportionalibus, Logarithmi mediorum æquentur Logarithmis extremorum; & Vnitas, mediorum alter nullum habeat Loga-

rithmum; reliqui medij ſolius, id eſt Numeratoris ſolius, Logarithmus æquatur Logarithmis extremorum: id eſt Denominatoris, qui primus eſt è quatuor proportionalibus, & Partium, qui numerus eſt quartus. vt in his exemplis videmus.

		Logarithmi.			Logarithmi.
pro-	5	06989700043	pro-	4	06020599913
	13	11139433523		3	04771212547
port.	1	00000000000	port.	1	00000000000
	$\frac{13}{5}$	04149733480		$\frac{3}{4}$	—01249387366

In quibus partes impropriæ $\frac{13}{5}$ vel $2\frac{3}{5}$ habent Logarithmum abundantem: at partes proprie ſic dictæ $\frac{3}{4}$ cum ſint minores Vnitate, Logarithmum habent defectivum: id eſt minorem 0. vel reliquum minoris à quo maior ſublatus fuit. quod apud Arithmeticos eſt vſitatum. vt ſi è tribus auferantur quinque, rectabunt— 2.

Hæc omnia ſatis erunt manifeſta, in his numeris, qui ſunt continue proportionales in decupla ratione. in quibus quo maior erit numerus, eo altius aſcendit eius Logarithmus ſupra 0: & quo minores erunt partes, eo magis deprimitur earum Logarithmus infra 0. vt hic cernimus, vbi tres numeri $12\frac{5}{10}$ $1\frac{25}{100}$ $\frac{125}{1000}$ ſunt continue proportionales, eorumque Logarithmi eaſdem ſervant differentias. Eſt enim Logarithmus Vnitatis 0: quem terminum conſtituimus, à quo Logarithmi Abundantes creſcere, Defectivi autem decreſcere incipiunt. Diſtantia autem inter *C* & *D* multo minor eſt quàm inter *D* & *E*: veruntamen ſi diſtantia Logarithmi *B*, infra conſtitutum terminum 0; addatur diſtantiæ *D*, ſupra eundem, tota diſtantia inter *B* & *D*, æquabitur diſtantiæ inter *D* & *E*, vel inter *B* & *A*. Iſti autem Partium Logarithmi Defectivi, characteriſticam mutant eodem modo quo Abundantes. nam ab Vnitate ad decem, characteriſtica eſt, 0. à decem ad centum, 1. à centum ad mille, 2. & ſic deinceps, vt cap. 4. oſtendimus. eodem modo in Defectivis: ab vnitate ad partem decimam, 0. à parte decima ad centeſimam, 1. à centeſima ad milleſimam, 2. &c. vt hic videmus.

	Logarithmi.			Logarithmi.	
1000	3,00000	$\frac{10000}{8}$	1250	3,09691,00	
100	2,00000	$\frac{1000}{8}$	125	2,09691,00	
10	1,00000	$\frac{100}{8}$	$12\frac{5}{10}$	1,09691,00	*E*
1	0	$\frac{10}{8}$	$1\frac{25}{100}$	0,09691,00	*D*
		Vnitas		0,00000,00	*C*
$\frac{1}{10}$	—1,00000	$\frac{1}{8}$	$\frac{125}{1000}$	—0,90308,99	*B*
$\frac{1}{100}$	—2,00000	$\frac{1}{80}$	$\frac{125}{10000}$	—1,90308,99	*A*
$\frac{1}{1000}$	—3,00000	$\frac{1}{800}$	$\frac{125}{100000}$	—2,90308,99	
		$\frac{1}{8000}$	$\frac{125}{1000000}$	—3,90308,99	

ciuſdē valoris.

	Logarithmi.
2570	3409933
257	2409933
$25\frac{7}{10}$	1409933
$2\frac{57}{100}$	0409933
$\frac{257}{1000}$	—0590067
$\frac{257}{10000}$	—1590067
$\frac{257}{100000}$	—2590067

	Logarith.	
3	0,47712,1254	
24	1,38021,1241	
$\frac{3}{24}$	—0,90308,9987	¶
125	2,09691,0013	
1000	3,00000,0000	
$\frac{125}{10000}$	—0,90308,9987	
1	0,00000,0000	
8	0,90308,9987	
$\frac{1}{8}$	—0,90308,9987	

Cum autem Partium idem ſemper ſit valor, ſi eadem fuerit ratio numeratoris ad denominatorem, poterimus eaſdem partes ſcribere pluribus modis, earum tamen Logarithmus ſemper erit idem: differentia ſcil. Logarithmorum numeratoris & denominatoris. quæ in proportionalibus omnibus eſt eadem,

ex

ex ipſa Logarithmorum definitione. vt $\frac{3}{10}$, $\frac{1}{8}$, $\frac{125}{1000}$, eaſdem partes nobis exprimunt: quarum idem eſt Logarithmus defectivus — 0,90308,9987. ¶

Caput XI.

Numerum in Chiliadibus repertum, per partem proportionalem emendare.

OStendimus quibus modis omnium numerorum primorum & compoſitorum, integrorum & partium, Logarithmos invenire poterimus. horum, triginta Chiliadas his deſcriptas habemus, duabus columnis comprehenſas. earum prior verſus ſiniſtram, continet numeros abſolutos naturali ſerie creſcentes, ab Vnitate ad 20000: deinde hac ſerie interrupta, à 90000 vſque ad 100000. altera columna priori contigua, habet numerorum abſolutorum Logarithmos, eorumque differentias. quæ non ſolum oſtendunt menda, ſi quæ forte irrepſerint, ſed etiam partem ſubminiſtrant proportionalem, quoties vſus poſtulabit, vt aliquid quęramus accuratius eo, quod in ipſo abaco habetur. iſta autem pars proportionalis, quæ per has acquiritur differentias, non eſt abſolute perfecta; ſed ſemper aliquantulum recedit ab ea quam quęrimus accurata veritate. cum enim numeri abſoluti vbique creſcant ęqualiter, Logarithmi autem quo ſunt maiores eo minora habent incrementa: ſi pro numero abſoluto, Logarithmus numeri proxime minoris, ſit per partem proportionalem augendus, pars illa per differentiam interiectam quęſita, erit ſemper minor quã oportuit. contra autem, ſi pro Logarithmo dato quęratur numerus abſolutus, is per partem proportionalem auctus erit iuſto maior. Idem accidit incõmodi in Sinubus, Tangentibus, Secantibus; omninoque in omnibus tabulis numerorum, vbi differentiæ ex alterâ parte ſunt ęquales ex reliquâ inęquales. Veruntamen quo minor eſt differentiarum inęqualitas, eo minor erit aberratio à vero. Ea de cauſa, pars proportionalis longius recedit à vero in prioribus Chiliadibus, quam in poſterioribus; ad quas (quoties opus poſtulat, & otium fuerit, numerũ quęſitum accuratius inveſtigare) provocare poterimus, ad hunc modũ.

Datus Logarithmus (cuius numerus abſolutus quęritur) in primis deponat Characteriſticam, (quæ numerũ quęſitum nullo modo mutare poteſt, ſed tantum promovere in gradum altiorem & ab Vnitatum loco remotiorẽ.) deinde auferatur è Logarithmo Denarij 1,00000,00000,0000. reliquus non incommode vocari poterit complementum Arithmeticum. hunc reliquum (addita prius Characteriſtica quæ nobis viſa fuerit commodiſſima) quæramus inter Chiliadas, ſumaturque Logarithmus proxime minor, & (numero eiuſdem abſoluto ad tempus ſepoſito) addatur dato Logarithmo. totus incidet neceſſario in vltimam Chiliadem, in qua ſumendus eſt numerus abſolutus eidem congruens, quem per partem proportionalem adiectam emendare poterimus. hunc numerum inventum & emendatũ, dividat prior numerus antea ſepoſitus; quotus erit numerus dato Logarithmo congruens, quem in primis quærebamus. Huius præcepti hoc cape exemplum. Quærendus ſit medius proportionalis inter Vnitatem & 1200. huius Logarithmus eſt 3,07918,12460,4762 medij autem quæſiti Logarithmus eſt huius dimidius, ex definitione Logarithmorũ, cap. 1. & 2. ax. cap. 2. nempe 1,53959,06230,2381. qui depoſitâ Characteriſticâ ablatus è 1,00000,00000,0000 relinquit 0,46040,93769,7619. cui proximus, ſi Characteriſticam negligamus, in Chiliade tertia reperitur 3,46039,63267,5746 eique è regione numerus abſolutus ſeponendus 2886. hic Logarithmus repertus addatur dato, totus præter Characteriſticam erit, 0,99988,69497,8127. hunc quæro in Chiliade centeſima, vbi proxime minorem invenio 4,99988,27246,5701. eique è regione 99973, qui per partem proportionalem auctus fit 9997[illegible],97261,3004, huius numeri (diviſi per 2886, numerum ante ſepoſitum) quotus erit 34641,01615,1422.

Characteriſticam ſæpiſsime augere vel minuere poterimus pro arbitrio.

Complementum arithmeticum.

Factores.	numeri cõp.	Logarithmi.	Factores.	numeri cõp.	Logarithmi.
4.4.8.8	1024	3,01029,99566,3981	6.8.9	4320	3,63548,37468,1491
4.4.7	1120	3,04921,80226,7018	7.7.9.9	4410	3,64443,85894,6784
4.4.8.9	1152	3,06145,24790,8719	7.8.8	4480	3,65127,80139,9814
3.4	1200	3,07918,12460,4762	5.9	4500	3,65321,25137,7534
5.5.7.7	1225	3,08813,60887,0055	8.8.8.9	4608	3,66351,24704,1515
2.7.9	1260	3,10037,05451,1756	2.6.7.7.8	4704	3,67246,73130,6807
4.4.8	1280	3,10720,99696,4787	6.8	4800	3,68124,12373,7559
4.4.9.9	1296	3,11260,50015,3457	7.7	4900	3,69019,60800,2851
4.6.7.8	1344	3,12839,92687,1780	5	5000	3,69897,00043,3602
3.5.9	1350	3,13033,37684,9500	7.8.9	5040	3,70243,05364,4552
2.8.9	1440	3,15836,24920,9525	8.8.8	5120	3,70926,99609,7583
3.5	1500	3,17609,12590,5568	8.8.9.9	5184	3,71466,49928,6253
4.6.8.8	1536	3,18639,12156,9549	2.6.7.8.8	5376	3,73045,92600,4576
4.4	1600	3,20411,99826,5592	6.9	5400	3,73239,37598,2297
2.9.9	1620	3,20951,50145,4263	5.5.5.9	5625	3,75012,25267,8340
3.8.7	1680	3,22530,92817,2586	7.9.9	5670	3,75358,30588,9291
6.6.8	1728	3,23754,37381,4287	8.8.9	5760	3,76042,24834,2321
4.7.8.8	1792	3,25333,80053,2611	8.9.9.9	5832	3,76581,75153,0992
3.6	1800	3,25527,25051,0331	6	6000	3,77815,12503,8364
3.7.9	1890	3,27646,18041,7324	5.5.7.7	6125	3,78710,60930,3657
6.6.9	1944	3,28869,62605,9026	2.6.8.8	6144	3,78845,12070,2345
2	2000	3,30102,99956,6398	7.9	6300	3,79934,05494,5358
6.6.7.8	2016	3,30449,05277,7348	8.8	6400	3,80617,99739,8389
4.8.8	2048	3,31132,99523,0379	8.9.9	6480	3,81157,50058,7060
6.6.6	2160	3,33445,37511,5093	9.9.9.9	6561	3,81697,00377,5729
4.7.8	2240	3,35024,80183,3416	2.6.7.8	6720	3,82736,92730,5382
4.8.8.9	2304	3,36248,24747,5117	3.5.5.9	6750	3,82930,37728,3102
6.7.7.8	2352	3,37143,73174,0410	3.6.6.7.9	6804	3,83276,43049,4055
4.6	2400	3,38021,12417,1161	2.6.8.8.9	6912	3,83960,37294,7083
5.7.7	2450	3,38916,60843,6453	7	7000	3,84509,80400,1426
5.7.8.9	2520	3,40140,05407,8154	3.6.7.7.8	7056	3,84855,85721,2376
4.8.8	2560	3,40823,99653,1185	4.4.7.8.8	7168	3,85539,79966,5407
4.8.9.9	2592	3,41363,49971,9855	8.9	7200	3,85733,24964,3127
6.7.8.8	2688	3,42942,92643,8178	3.5.7.7	7350	3,86628,73390,8420
3.9	2700	3,43136,37641,5899	2.6.7.9	7560	3,87852,17955,0121
4.7	2800	3,44715,80313,4222	2.6.8.8	7680	3,88536,12200,3151
4.8.9	2880	3,45939,24877,5923	2.6.8.9.9	7776	3,89075,62519,1822
3	3000	3,47712,12547,1966	4.4.7.7	7840	3,89431,60626,8443
6.8.8.8	3072	3,48742,12113,5948	2.7.7.9.9	7938	3,89971,10945,7114
4.8	3200	3,50514,99783,1990	8	8000	3,90308,99869,9194
4.9.9	3240	3,51054,50102,0661	2.7.8.8.9	8064	3,90655,05191,0146
6.7.8	3360	3,52633,92773,8984	9.9	8100	3,90848,50188,7865
6.8.8.9	3456	3,53857,37338,0686	4.4.8.8.8	8192	3,91338,99436,3175
7.7.8.9	3528	3,54752,85764,5978	3.4.7	8400	3,92427,92860,6188
7.8.8.8	3584	3,55436,80009,9009	3.4.8.9	8640	3,93651,37424,7889
4.9	3600	3,55630,25007,6729	2.7.7.9	8820	3,94546,85851,3128
6.7.9	3780	3,57749,17998,3723	4.4.7.8	8960	3,95230,80096,6212
6.8.8	3840	3,58433,12243,6752	9.9	9000	3,95424,25094,3932
6.8.9.9	3888	3,58972,62562,5424	2.8.8.8.9	9216	3,96454,24660,7914
7.7.9.9	3969	3,59868,10989,0716	3.7.7.8.8	9408	3,97349,73087,3205
4	4000	3,60205,99913,2796	3.5.7.9.9	9450	3,97543,18085,0926
7.8.8.9	4032	3,60552,95234,3747	2.6.8	9600	3,98227,12330,3957
8.8.8.8	4096	3,61235,99479,6777	2.6.9.9	9720	3,98766 62649,2628
7.6	4200	3,62324,92903,9790	2.7.7	9800	3,99122,60756,9240

Logarithmi.

prop. { 1 - - - - 0 ; *l.* 1200 *A* 1,53959,06230,2381 } dati. ; 1200 - - 3,07918,12460,4762 }

10 1,00000,00000,0000

A. 1,53959,06230,2381

B. 0,46040,93769,7619 Complementum.

2886. *C.* 3,46029,63267,5746 Complemento proximus.

summa *A. C.* 0,99988,69497,8127

42251,2426 Differentia.

H. 99973. 0,99988,27246,5701

43440,9600 Differentia.

99974. 0,99988,70687,5301

prop. { 434409600 ; 422512426 } Differentiæ datæ. ; 1 - - - - - - }

09726 13004 pars proportionalis addenda.

Factus Dividendus. *H.* 99973 97261 3004 numerus absolutus auctus.

Factores { Divisor 2886. ; Quotus 34641016151422 }

Hæc omnia demonstrantur per 2. ax. cap. 2. est enim *l* 1200 alter factor, reliquus autem 2886. horum Logarithmi additi sunt 0,99988,69497,8127 æquales Logarithmo facti. nempe numeri 99973,97261,3004. hic factus divisus per datum factorem 2886 dabit in quoto reliquum factorem quæsitum 34641,01615,1422. qui fere æqualis est medio proportionali quæsito 34641016151377546.

Cum autem huiusmodi divisio, quæ fit per numerum quatuor notarum nimis sit operosa, aliquot numeros compositos seligendos putavi, quos præcedens exhibet pagina. numeri à sinistris sunt factores, ex quorum continua multiplicatione fiunt illi compositi. à dextris autem sunt eorundem Logarithmi. Quod si numerus sit à composito dividendus, loco divisoris sumantur factores eiusdem, qui quotum quæsitum facilius invenient. Quomodo autem id fieri debeat exemplo ostendam. Quæratur medius proportionalis inter 1 & 10800, huius Logarithmus 4,03342,37554,8695. Logarithmus medij quæsiti est huius semissis 2,01671,18777,4347. huius complementum 0,98328,81222,5653. Logarithmus in abaco hic descripto repertus huic proximus est 0,98227,12330,3957 (cui è regione situs est 9600) qui dato additus dat 0,99898,31107,8304, Logarithmum numeri 99766. qui per partem proportionalem auctus, fit 99766,12651,6521. is divisus per 9600 (vel continue per 2. 6. 8, vt Lemmate 2. cap. 5. admonui) quotus erit 10392 30484547.

Operationis modum hic intueri poteris.

Logarithmi.

prop. { 1 - - - - 0 ; *l.* 10800 *A* 2,01671,18777,4347 } dati. ; 10800 - - 4,03342,37554,8695 }

10 - - - - 1,00000,00000,0000

A. 2,01671,18777,4347

B. 0,98328,81222,5653 Complementum.

9600. *C.* 0,98227,12330,3957 Complemento proximus.

summa *A. C.* 0,99898,31107,8304

5507,4025 Differentia.

H 99766 - - - 4,99898,25600,4279

43531,0933 Differentia.

99767 - - 4,99898,69131,5212

pro-port. { 4353109337 / 55074025 } Differentiæ datæ.
1 - - - - -
126516521 pars proportionalis addenda.
H. 9976612651652 1 numerus absolutus auctus.

Factores numeri 96 sunt 2.6.8. qui sunt divisores numeri H inventi.

H. Dividendus 9976612651652 1
Divisor 8) 1247076581456 51 Quotus primus.
Divisor 6) 207846096909 42 Quotus secundus.
Divisor 2) 103923048454 71 Quotus vltimus.
103923048454133 medius quæsitus, per inventionem lateris quadrati.

Quotus hic vltimus est medio quæsito paulo maior.

Hic tandem Characteristicam respicimus, hucusque per totam operationem fere neglectam. Cum enim Logarithmus numeri *A*, habeat 2 pro Characteristica, lateris quæsiti tres primæ notæ, designant integras vnitates, subsequentes autem exprimunt numeratorẽ partium adijciendarũ. vt antea cap. 4. Inter hanc & priorem operationẽ, hoc tantum interest, quod numerus complemento proximus, antea quærebatur inter Chiliadas; hic vero quæritur in abaco numerorum compositorum hic descripto: illic divisor poterit esse numerus primus; hic vero erit semper compositus, cuius loco alij divisores substitui poterunt, qui eundem quotum facilius invenient. vt pro divisore 9600, substituuntur 8.6.2. quorum primus dividit datum, secundus dati quotum, tertius hunc quotum secundum.

Caput XII.

Datis duobus numeris proximis, vna cum eorum Logarithmis: interserere alios nouem æquidistantes, inter eosdem; & eorum Logarithmos invenire.

Si datorum Logarithmorum differentiæ, secundæ sint fere æquales, non erit difficile hoc præstare: aliàs, hic modus, si tertiæ differentiæ sint adhibendæ, non nihil deficiet.

Sumantur duo numeri proximi *A*, & eorum Logarithmi *B*, vnà cum eorum differentijs primis *C*, & secundis *D*. Si differentiæ secundæ sint æquales, multiplicetur eorum altera per numeros in abaco *E*, decem primis numeris adiunctos; facti autem *F G H I K* demptis tribus vltimis notis, pro primis quinque addantur, pro totidem reliquis auferantur parti decimæ differentiæ primæ *C* interiectæ: toti & reliqui erunt differentiæ Logarithmorum quæsitorum; quæ dato minori Logarithmo, suo ordine continue additæ, dabunt Logarithmos quæsitos. vt hic vides. Sunto dati numeri 91235. 91236. differentia prima 47601479 9.

47602,0016. *C*
91235. *A*. 4,96016,14763,8639. *B*. 5217. *D*
47601,4799. *C*
91236. *A*. 4,96016,62365,3438. *B*. 5217. *D*
47600,9582. *C*

E	
1. 45	addendi facti.
2. 35	
3. 25	
4. 15	
5. 5	
6. 5	auferendi facti.
7. 15	
8. 25	
9. 35	
10. 45	

num.abſ.	Logarithmi.	
912350	4,96016,14763,8639	
	4760,1715	*C+F*
912351	4,96016,19524,0354	
	4760,1662	*C+G*
912352	4,96016,24284,2016	
	4760,1610	*C+H*
912353	4,96016,29044,3626	
	4760,1558	*C+I*
912354	4,96016,33804,5184	
	4760,1506	*C+K*
912355	4,96016,38564,6690	
	4760,1454	*C−K*
912356	4,96016,43324,8144	
	4760,1402	*C−I*
912357	4,96016,48084,9546	
	4760,1350	*C−H*
912358	4,96016,52845,0896	
	4760,1297	*C−G*
912359	4,96016,57605,2193	
	4760,1245	*C−F*
912360	4,96016,62365,3438	

Facti		5217. Factor	
F - -	234765	45	factores reliqui.
G - -	182595	35	
H - -	130425	25	
I - -	78255	15	
K - -	26085	5	

476014799	$\frac{1}{7}$ *C*
476017147	*C+F*
476016625	*C+G*
476016103	*C+H*
476015582	*C+I*
476015060	*C+K*
476014538	*C−K*
476014016	*C−I*
476013495	*C−H*
476012973	*C−G*
476012451	*C−F*

Si differentiæ ſecundæ ſint inæquales vt hic * * addantur duæ proximæ, & ſumatur ſemiſſis ſummæ pro differentia ſecunda, & multiplicetur vt antea.

	4,51707,8187	*C*
9615. *A.*	3,98294,92885,7450	*B*
	4,51660,8416	*C*
9616. *A.*	3,98299,44546,5866	*B*
	4,51613,8744	*C*

96150	3,98294,92885,7450	¶
	45168,1979	*C+F*
96151	3,98295,38053,9429	
	45167,7282	*C+G*
96152	3,98295,83221,6711	
	45167,2585	*C+H*
96153	3,98296,28388,9296	
	45166,7887	*C+I*
96154	3,98296,73555,7183	
	45166,3190	*C+K*
96155	3,98297,18722,9373	
	45165,8493	*C−K*
96156	3,98297,63887,8866	
	45165,3796	*C−I*
96157	3,98298,09053,2662	**
	45164,9099	*C−H*)
96158	3,98298,54218,1761	
	45164,4401	*C−G*
96159	3,98298,99382,6162	
	45163,9704	*C−F*
96160	3,98299,44546,5866	

469771. *D*	* *	facti.	469721. factor.
		F. 21137445	45
	*	*G.* 16440235	35
469672. *D*		H. 11743025	25
939443. ſumma.		*I* - - 7045815	15
469721. ½ ſummæ.		*K* - - 2348605	5

reliqui facto. res.

469721	
105	
2348605	
469721	
49320705	§

451660841	$6\frac{1}{10}$ *C*
451681979	0. *C+F*
451677281	8. *C+G*
451672584	6. *C+H*
451667887	4. *C+I*
451663190	2. *C+K*
451658493	0. *C−K*
451653795	8. *C−I*
451649098	6. *C−H*
451644401	4. *C−G*
451639704	2. *C−F*

E	
1	45
2	80
3	105
4	120
5	135
6	120
7	105
8	80
9	45

addantur facti.

C 451660841 6

7

facti { 3161625891 2 / 4922007 §

totus 3161675212

¶ 39829492885 4750

** 96157 - - - 39829809053 2662

451660841	6 $\frac{1}{10}$ *C*
factus - -	11743 0
) reliquus	451649098 6

Quod ſi horum aliquem invenire cupias, reliquis omiſſis : numerus denario minor, numero *A* dato adiectus, multiplicet datam differentiam *C*; & numerus eidem adiunctus in abaco *E*, multiplicet differentiam ſecundam,

& demptis hinc tribus, illinc vnica nota, addantur facti: totus dato Logarithmo additus, dabit Logarithmum quęsitum. vt si scire velim quis sit Logarithmus numeri 96157. data differentia 451660841 6 multiplicetur per 7. factus 3161625891 2. deinde 105 situs è regione numeri 7 in abaco *E*, multiplicet differentiam secundam 469721, factus 49320|705 ablatis tribus notis vltimis, addatur priori facto, cui vnica nota detracta fuerit 3161625891, totus 3161675212 addatur dato Logarithmo ¶. totus 39829809053266 2 erit Logarithmus numeri 96157. quęsitus **. Si differentiam inter Logarithmos huius numeri & proxime maioris scire cupias: numerus in abaco *G* adiunctus numero 8, qui datum septenarium vnitate superat, multiplicet differentiam secundam 469721; factus 11743|025 ablatis tribus notis, auferatur è parte decima datæ differętiæ primæ, reliquus 451649099 erit differentia quęsita. *J.*

Inventio partis proportionalis accuratæ.

Atque hic modus partem proportionalem inveniet satis accuratam. Cum enim secundum ea quæ superiori capite tradebantur, Logarithmum datum transtulimus, à loco proprio in vltimam vel penultimam Chiliadem, poterimus primam partis proportionalis notam, numero absoluto in Chiliade reperto adijcere, & numeri aucti Logarithmum per proxime præcedentia invenire, vnà cum differentia inter eundem & proxime maiorem. hæc differentia dabit partem proportionalem quam quęrimus accuratissimam huius rei vnicum videamus exemplum.

Quæratur latus numeri 147. Dati Logarithmus est 2,16731,73347,4818. huius semissis 1,08365,86673,7409 est Logarithmus quęsiti lateris.

	Logarithmi.			
*L.*147	1,08365,86673,7409.	datus.		
8192	0,91338,99436,3175.	complemento proximus.		
N.N	0,99704,86110,0584	totus.		
	31548,5329	differentia.	pro- 43725 / 31548 / port. 10 ---	differentiæ datæ.
99322	0,99704,54561,5255		7 ---- quæsita.	
	43725,6897	differentia.		
99323	0,99704,98287,2152			

Hucusque per præcepta cap. 11. quæ dederunt notam 7, numero 99322 in abaco reperto adijciendam. reliqua quęrantur secundum ea quæ proxime pręcesserunt.

	43726,1300	
993220	0,99704,54561,5255	4403
	43725,6897. *C*	
993230	0,99704,98287,2152	4402
	43725,2495	
993220	0,99704,54561,5255. *R*	
	30608,0290. *Q*	
993227	0,99704,85169,5545. *M*	
	4372,5580. C—H	
993228	0,99704,89542,1125	

C 43725689 7 } factores
7 }
3060798279 factus.

4403 } factores.
105 }

22|015
440|3
462|315 factus.

facti 3060798279 / 462|3

Q. 2060802902 addendus

4403 } factores
25 }

22|015
88|06

110|075 factus auferendus.

C. 4372568 9|7
H - - - - 110|1 auferēdus.
C—H. 43725579|6

Facto à data differentia *C* in 7, addatur factus à differentia secunda 4403, & 105 factore reperto in abaco *E*: totus *Q* additus dato Logarithmo *R* dabit Logarithmum *M*, numeri 993227. inter quē & proximum 993228 est differerentia *C*—*H*. quæ partem dabit proportionalem fere accuratissimam, si totus *NN*.0,99704,86110,0584 conferatur cum *M* sic.

N.N.	0,99704,86110,0584	
	1940,5039	
993227	0,99704,85169,5545.	*M*
	4372,5580	
993228	0,99704,89542,1125	

pro-port. { 43725580- / 9405039- / 10- - - - - } differentiæ datæ.
{ 21509238 pars proportionalis quæsita.

Est igitur numerus 9932272150923 8 congruens Logarithmo *NN* 0,99-704,86110,0584.

Quod si numerus 8192, vel eiusdem factores 8.8.8.8.2 diviserint numerum inventum, quotus 12124,35565,29831,6 erit latus numeri 147 quæsitum & amplius. est enim latus vero proximum 12124,35565,29824,41054.

Caput XIII.

Logarithmos Chiliadum quæ desiderantur invenire. Vel datis quotlibet numeris æquidistantibus, vnà cum eorum Logarithmis quatuor numerorum, pro singulis intervallis intermediorum, Logarithmos invenire.

Logarithmi intermedij pluribus modis haberi poterunt. ego hunc imprimis amplectendum censeo; de reliquis postea videbimus.

Sumantur differentiæ primæ, secundæ, tertiæ, quartæ, &c. datorum Logarithmorum; & dividantur primæ per 5, secundæ per 25, tertiæ per 125, &c; divisoribus quintupla ratione crescentibus: quoti appellentur differentiæ mediæ, primæ, secundæ, tertiæ, &c. vel potius loco divisionis, fiat multiplicatio datarum primarum per binarium, secundarum per quaternarium, tertiarum per octonarium, &c. amputatis vnica nota in factis à primis, duabus in proximis, tribus in tertijs, &c. hi facti qui sunt illis quotis æquales, erunt differentiæ mediæ primæ, secundæ, tertiæ, &c. vt sunto dati hi Logarithmi vnà cum eorum differentijs primis, secundis, tertijs, quartis, quintis, quas ipsi dati Logarithmi per subductionem ostendunt.

quintæ	quartæ	tertiæ	secundæ	primæ	Logarithmi.	numeri absoluti.
		1151695		102791641337		
	8138		2427195 68		33253,10371,71106	2115
75		1143557		102548921769		
	8063		24157601 1		33263,35860,92875	2120
75		1135494		102307345758		
	7988		24044051 7		33273,58934,38633	2125
		1127506		102066905241		

Proximo in loco sunt differentiæ mediæ quærendæ, per multiplicationem, primarum datarum per binarium, facti dempta nota vnica erunt primæ. reliquæ mediæ fiunt si datas multiplicent 4. 8. 16. 32. &c.

Deinde hæ mediæ sunt corrigendæ ad hunc modum.

Duæ species remotissimæ, scil. quartæ & quintæ corrigi nequeunt (quia sextæ & septimæ sunt nullæ: omnis autem differentiarum correctio fit per subductionem differentiarum alternarum magis remotarum & correctarum: vt subductio septimarum corrigit quintas: sextarum quartas, &c.) sumuntur idcirco quartæ & quintæ mediæ, pro quartis & quintis correctis.

Tertię autem medię corriguntur ſi ab ijſdem auferantur tres Quintæ correctę.

	differentiæ mediæ		
primæ	205583 28267	4	per. 2
	205097 84353	8	
	204614 69151	6	
	204133 81048	2	
ſecũdæ	9708782	72	per. 4
	9663040	44	
	9617620	68	
tertiæ	9213	560	per. 8
	9148	456	
	9083	952	
	9020	048	
E quartæ	13	0208	per. 16
	12	9008	
	12	7808	
quintæ		02400	per. 32
		02400	

9213 560 tertia media.
72 tres quintæ correctæ.
9213 488 tertia correcta.
9148 456 tertia media.
72 tres quintæ correctæ.
9148 384 tertia correcta. D
9083 952 tertia media.
72
9083 880 tertia correcta.
9020 048
72
9019 976 tertia correcta.

A ſecundis medijs ſunt auferendę duę quartę correctę, debuit inſuper auferri $1\frac{1}{2}$ ſextę, ſi vllę ſextę intra hos limites inventę fuiſſent.

tertiæ correctæ	9213	5
	9148	4 D
	9083	9
	9020	0
ſecundæ correctæ	9708756	
	9663014	C
	9617595	
primæ correctæ	205583 19053	9
	205097 75205	4 B
	204614 60067	7
	204133 72020	2

9708782 72 ſecunda media.
2604 duæ quartæ correctæ.
9708756 68 ſecunda correcta.
9663040 44 ſecunda media.
2580 duæ quartæ correctæ. C
9663014 64 ſecunda correcta.
9617620 68
2556 duæ quartæ correctæ.
9617595 12 ſecunda correcta.

A primis medijs auferendę ſunt vna tertia correcta & $\frac{1}{5}$ quintę.

205583 28267 4 prima media.
9213 5 vna tertia correcta.
0048 $\frac{1}{5}$ quintæ.
205583 19053 9 prima correcta.
205097 84353 8 prima media.
9148 4 tertia correcta.
205097 75205 4 prima correcta.
284611 69151 6
9083 9 tertia correcta. B
204614 60067 7 prima correcta.
204133 81048 2
9020 0
204133 72028 2 prima correcta.

$\frac{1}{5}$ quintæ cadit extra limites & idcirco poterit tuto negligi.

Atque ad hunc modum ſunt omnes differentię correctę, & ad ſuum munus exequendum paratę. eodem modo vti deberemus ſi plures fuiſſent differentiarum ſpecies, incipiendo à minimis & remotiſſimis. Quot autem in vnaquaque ſpecie ſint auferendę, indicat hęc ſubiecta tabella:

**** Non pro Logarithmis tantum ſunt omnes auferendæ; ſed etiam pro Tangentibus, Secantibus, & omnibus numerorum æquidiſtantium poteſtatibus homogeneis. At pro Sinubus, differētiæ quæ columnis *B D F H* continentur, ſunt addendæ differentijs medijs in columna *A* poſitis: reliquæ vero in columnis *C E G I* ſunt ab ijſdem auferendæ.

A	*B*	*C*	*D*	*E*	*F*	*G*	*H*	*I*
20								
19								
18	18(20)							
17	17(19)							
16	16(18)	123 2/3(20)						
15	15(17)	108 1/3(19)						
14	14(16)	93 8/9(18)	400 4/9(20)					
13	13(15)	80 6/9(17)	317 2/9(19)					
12	12(14)	68 4/9(16)	246 4/9(18)	629 64/81(20)				
11	11(13)	57 2/9(15)	187 0(17)	431 20/81(19)				
10	10(12)	47 0(14)	138 0(16)	283 80/81(18)	434 40/81(20)			
9	9(11)	37 8/9(13)	98 4/9(15)	177 84/81(17)	236 88/81(19)			
8	8(10)	29 6/9(12)	67 2/9(14)	104 72/81(16)	118 72/81(18)	111 248/81(20)		
7	7 (9)	22 4/9(11)	43 4/9(13)	56 84/81(15)	53 20/81(17)	36 680/81(19)		
6	6 (8)	16 2/9(10)	26 0(12)	27 60/81(14)	20 40/81(16)	10 760/81(18)	4 080/81(20)	
5	5 (7)	11 0 (9)	14 0(11)	11 40/81(13)	6 20/81(15)	2 280/81(17)	500/81(19)	
4	4 (6)	6 8 (8)	6 4/9(10)	3 64/81(12)	1 28/81(14)	272/81(16)	032/81(18)	0016/81(20)
3	3 (5)	3 6/9 (9)	2 2/9 (9)	72/81(11)	12/81(13)	008/81(15)		
2	2 (4)	1 4/9 (6)	4/9 (8)	04/81(10)				
1	1 (3)	2/9 (5)						

Numeri in columna *A* poſiti, deſignant differentias medias, primas, ſecundas, tertias,&c. vſque ad viceſimas. Numeri vero in columnis *B C D* &c. oſtendunt, quot & quales differentię correctę ſunt auferendę, **** ab illis differentijs medijs, quę in columna *A* in eadem cum illis linea ſitę ſunt. Exempli cauſâ: à differentia media ſexta, auferendę ſunt differentię correctę octavę 6; decimę $16\frac{2}{9}$; duodecimę 26,&c. eodem modo è differentia prima media, auferendę ſunt differentię correctę tertia 1, & quintę $\frac{1}{9}$.

Poſtquam inventę fuerint hę differentię correctę, proximum eſt vt vnaqueque ſuo loco commode locetur. vt in tam multiplici negotio, omnis quantum fieri poterit confuſio vitetur. hoc autem facilius aſſequemur ſi chartam habeamus in areolas, lineis rectis ad hunc modum diſtinctam; & ſi differentię primę, tertię, quintę, ſeptimę, diverſo à cęteris colore ſcribantur. Dati Logarithmi ſignati *A* quintum quemque locum occupant. Differentięque Secundę *C*, Quartę *E*, Sextę, Octavę,&c. in ijſdem lineis cum Logarithmis locantur ſiniſtrorſum. Differentię vero Primę *B*, Tertię *D*, Quintę, Septimę,&c. medias ſedes poſſident cuiuſque ſpatij. Tandem ſedes vacuę ſunt implendę incipiendo à ſiniſtris. Additione quartarum differentiarum tertię perficiuntur, Tertiarum additione Secundę: & ſic deinceps. Et inter addendum poterimus vnitatem addere vel detrahere prout res poſtulabit. In his enim irrationalibus ſufficit differentias habere veris proximas cum ipſas accurate verâs invenire non poſſumus. Eâ de cauſâ, cum in initiò huius Capitis dixeram, factis à differentijs primis per binarium, vltimam notam eſſe auferendam; hic nullam abſtuli. ſed in differentijs primis, reliquiſque, vnicam notam adijciendam putavi vltra limites conſtitutos: vt omnia certiora eveniant & perfectiora. Idem in Tangentibus, Secantibus, & Sinubus faciendum ſuadeo. at in poteſtatibus numerorum æquidiſtantium, vbi omnes differentię ſunt rationales, non minus quam ipſi dati numeri; omnia poterunt intra conſtitutos limites contineri, in quibus omnibus eſt definitus differentiarum diverſarum numerus, vltra quem, ſi latera æquales ſervent differentias, progredi non poterunt. vt in Quadratis duæ ſunt differentiarum ſpecies, in Cubis tres, in Biquadratis 4,&c. Suntque ſemper differentiæ remotiſſimæ æquales inter ſe, & æquales facto à

potestate homogenea differentiæ laterum, ducta in continue factum ab Indicibus eiusdem potestatis & omnium inferiorum. vt si laterum differentia sit 1 differentiæ vltimæ erunt, in Quadratis 2, in Cubis 6, in Biquadratis 24, in (5) 120, in (6) 720, in (7) 5040, &c. ipsi scilicet continue facti ab 1,2.. 2. ab 1,2,3. 6. ab 1,2,3,4. 24. &c. sed si differentia laterum sit 3: differentia remotissima, Quadratorum erit 18, factus à quadrato 9 in 2. Cuborum 162, factus à cubo 27 in 6. Biquadratorum 1944 factus à biquadrato 81 in 24. &c.

Differ. 4.			Differ. 2. & 3.			Logarithm. & Differentiæ 1.				nũ. absl.
			92135	D		2 05583	19063	9	B	
		97	27144	5						
			92004			2 05485	91909	5		
		97	17944	1						
			91874			2 05388	73965	4		
E 13	0	97	08756	7	C	33253	10371	71106	A	2115
			91744			2 05291	65208	7		
		96	99582	4		255	15663	36315		16
			91614			2 05194	65626	3		
		96	90421	0		257	20858	01941		17
			91484	D		2 05097	75205	4	B	
		96	81272	6		259	25955	77146		18
			91355			2 05000	93932	7		
		96	72137	1		261	30956	71079		19
			91226			2 04904	21795	6		
E 12	9	96	63014	6	C	33263	35860	92875	A	2120
			91097			2 04807	87810			
		96	53995	0		265	40668	51656		21
			90968			2 04711	04876	0		
		96	44808	2		267	45379	56532		22
			90839	D		2 04614	60067	7	B	
		96	35744	4		269	49994	16600		23
			90711			2 04518	24343	2		
		96	26653	3		271	54512	40943		24
			90583			2 04421	97689	9		
E 12	8	96	17595	1	C	33273	58934	38633	A	2125
			90455			2 04325	80094	8		
		96	08549	6						
			90327			2 04229	71545	2		
		95	99516	9						
			90200	D		2 04133	71028	2	B	

In omnibus his tam Potestatibus, quam Logarithmis, Tangentibus, Secantibus; necesse erit aliquot plures numeros continuare, sine quibus vlteriores differentias assequi non poterimus. vt in dato exemplo, ex altera parte 2110. 2105. ex reliqua 2130. 2135. At in Sinubus, si tres sinus arcuum æquidifferentium dati fuerint, omnes differentiæ vel remotissimæ per proportionis regulam inveniri poterunt, si opus fuerit. Sunt enim Sinus & Differentiæ Secundæ, Quartæ, Sextæ, Octavæ continue proportionales. & differentiæ Primæ, Tertiæ, Quintæ, Septimæ, sunt etiam continue proportionales. Atque vt Secundæ differentiæ sunt inter se proportionales Sinubus ipsis quibus situ respondent, eodemque modo Quartę, sextę, &c. sic Primę inter se & Tertię, Quintę, Septimę, sunt proportionales Sinubus complementorum arcuum mediorum.

Sed

Sed ſentio me ſtudio elatum longius progreſſum quam Homogeneorum leges patiuntur.

Si Chiliadem aliam iſtis adjiciendam cenſes, puta viceſimam primam, ſumenda eſt pars quinta numeri illius à quo initium ſumpturus es: primus numerus erit 20000, cuius pars quinta 4000, huius Logarithmo, & ducentis proximis, ſigillatim addatur Logarithmus Quinarij, ſummę erunt Logarithmi, quini cuiuſque numeri, per totam Chiliadem: nempe 20000. 20005. 20010. 20015. &c. horum autem differentię primę, ſunt illę ipſę quę in Chiliade quinta, intra illos ducentos Logarithmos inveniuntur. vnde petendę erunt differentiæ ſecundæ. differentias etiam tertias dabunt ſecundæ. Quartæ vero ſunt perexiguæ, quàs ea de cauſa tuto negligere poterimus. deinde binarius, quaternarius, octonarius multiplicent differentias primas, ſecundas, tertias. Facti erunt differentiæ mediæ, quæ locandæ ſunt ſuis locis, amputatis è ſecundis vnica nota, è tertijs duabus. Primæ autem ſunt à ſuis ſedibus arcendæ, donec per ſubductionem Tertiarum fuerint correctæ. reliqua omnia ſunt per additionem peragenda.

Atque hic modus interſerendi quatuor Logarithmos inter duos proximos datos, appellari poterit Quinqueſectio: cum ex vnico intervallo fiant quinque. Poterunt etiam leges tradi generales pro Triſectione & Septiſectione. harum autem omnium prętantiſſima eſt Quinqueſectio, ſive commoditatem ſpectemus ſive facilitatem. Triſectionis tamen modum tradere paucis non pigebit. Sumantur datorum differentiæ Primæ, Secundæ, Tertiæ, &c. vt prius. Deinde, Primas dividat, 3; Secundas, 9; Tertias, 27; Quartas, 81. &c. creſcentibus diviſoribus ratione tripla: Quoti erunt Differentiæ Mediæ Primæ, Secundæ, Tertiæ, Quartæ, &c. Hæ differentiæ mediæ, ſunt vt antea minuendæ in omnibus, prętерquam in Sinubus; deinde vbi correctæ fuerint, ſunt in ſuas ſedes transferendæ: & incipiendo à minimis & remotiſſimis, omnia ſunt vt antea per additionem perficienda. Quantum autem vnicuique differentiæ detrahendum ſit, indicat prętens Tabella.

A Differentiâ primâ mediâ, auferendus eſt triens Tertiæ correctæ.

A Differentiâ quartâ mediâ, auferendæ ſunt $\frac{4}{9}$ Sextæ, $\frac{2}{3}$ Octavæ, $\frac{4}{27}$ Decimæ, $\frac{1}{81}$ Duodecimæ correctarum.

Reliquę ſectiones quibus à numeris paribus nomina tribuuntur, vt Biſectio, Quadriſectio, &c. ſunt magis difficiles. Quod etiam in inventione Subtenſarum in Circulo experimur: cum ſectiones ab imparibus numeris denominatę, ipſas quęſitas ſubtenſas vnica operatione exhibeant. reliquę vero à paribus denominatę, non ipſas ſubtenſas, ſed ſubtenſarum tantum Quadrata expediant.

A	B	C	D	E
1 (12)				
1 (11)				
1 (10)	$3\frac{1}{3}$ (12)			
1 (9)	3 (11)			
1 (8)	$2\frac{2}{3}$ (10)	$3\frac{1}{9}$ (12)		
1 (7)	$2\frac{1}{3}$ (9)	$2\frac{2}{9}$ (11)		
1 (6)	2 (8)	$1\frac{6}{9}$ (10)	$\frac{20}{27}$ (12)	
1 (5)	$1\frac{2}{3}$ (7)	$1\frac{1}{9}$ (9)	$\frac{10}{27}$ (11)	
1 (4)	$1\frac{1}{3}$ (6)	$\frac{6}{9}$ (8)	$\frac{4}{27}$ (10)	$\frac{1}{81}$ (12)
1 (3)	1 (5)	$\frac{3}{9}$ (7)	$\frac{1}{27}$ (9)	
1 (2)	$\frac{2}{3}$ (4)	$\frac{1}{9}$ (6)		
1 (1)	$\frac{1}{3}$ (3)			

Exemplum triſectionis hic vides in biquadratis.

Diff. mediæ inventæ per diviſionẽ datarũ.				Differentiæ datæ.				biquadrati.	latera.
$4^{æ}$ per 81	$3^{æ}$ per 27	$2^{æ}$ per 9	$1^{æ}$ per 3	$4^{æ}$	$3^{æ}$	$2^{æ}$	$1^{æ}$		
								256	4
$\frac{24}{81}$	d. $4\frac{72}{81}$	$33\frac{46}{81}$	$223\frac{2}{3}$	24	132	302	671	625	5
	d. $5\frac{63}{81}$	$48\frac{18}{81}$	$368\frac{1}{3}$	24	156	434	1105	1296	6
		$65\frac{45}{81}$		24		590		2401	7
								4096	8

Tertiæ & quartæ differentiæ mediæ corrigi nequeunt.

Si è secundis medijs auferantur $\frac{2}{3}$ quartæ, restabunt secundæ correctæ. *C*.

Si è primis medijs auferatur $\frac{1}{3}$ tertiæ, restabunt primæ correctæ *B*. Vt patet è tabula prosthaphæreshum, pag. 29.

diff. 4	Differ. 3.	differen. 2		differ. 1.	biquadr.	latera.
		C. 33 $\frac{29}{81}$			625. *A*	5
	4 $\frac{48}{81}$	37 $\frac{77}{81}$	--	184 $\frac{7}{81}$	809 $\frac{7}{81}$	5 $\frac{1}{3}$
	D 4 $\frac{72}{81}$	42 $\frac{68}{81}$	*B*	222 $\frac{3}{81}$	1031 $\frac{10}{81}$	5 $\frac{2}{3}$
	5 $\frac{15}{81}$	*C.* 48 $\frac{2}{81}$	--	264 $\frac{21}{81}$	1296. *A*	6
$\frac{21}{81}$	5 $\frac{39}{81}$	53 $\frac{1}{81}$	--	312 $\frac{7}{8}$	1608 $\frac{73}{81}$	6 $\frac{1}{3}$
	D 5 $\frac{63}{81}$	59 $\frac{23}{81}$	*B*	366 $\frac{33}{81}$	1975 $\frac{25}{81}$	6 $\frac{2}{3}$
	6 $\frac{6}{81}$	*C.* 65 $\frac{29}{81}$	--	425 $\frac{56}{81}$	2401. *A*	7
$\frac{24}{81}$						

Tabula inventioni Logarithmorum inserviens.

1	0,00	100001	0,00000,43429,23104
2	0,30102,99956,63981	100002	0,00000,86858,02778
3	0,47712,12547,19662	100003	0,00001,30286,39025
4	0,60205,99903,27962 *A*	100004	0,00001,73714,31846
5	0,69897,00043,36019	100005	0,00002,17141,81240 *F*
6	0,77815,12503,83644	100006	0,00002,60568,87210
7	0,84509,80400,14257	100007	0,00003,03995,49757
8	0,90308,99869,91943	100008	0,00003,47421,68882
9	0,95424,25094,39324	100009	0,00003,90847,44585
11	0,04139,26851,58226	1000001	0,00000,04342,94265
12	0,07918,12460,47625	1000002	0,00000,08685,88095
13	0,11394,33523,06837	1000003	0,00000,13028,81491
14	0,14612,80356,78238	1000004	0,00000,17371,74453 *G*
15	0,17609,12590,55681 *B*	1000005	0,00000,21714,66981
16	0,20411,99826,55925	1000006	0,00000,26057,59074
17	0,23044,89213,78274	1000007	0,00000,30400,50733
18	0,25527,25051,03306	1000008	0,00000,34743,41958
19	0,27875,36009,52828	1000009	0,00000,39086,32748
101	0,00432,13737,82645	10000001	0,00000,00434,29447
102	0,00860,01717,61928	10000002	0,00000,00868,58888
103	0,01283,72247,05172	10000003	0,00000,01302,88326
104	0,01703,33392,98780 *C*	10000004	0,00000,01737,17759 *H*
105	0,02118,92990,69938	10000005	0,00000,02171,47187
106	0,02530,58652,64771	10000006	0,00000,02605,76611
107	0,02938,37776,85210	10000007	0,00000,03040,06031
108	0,03342,37554,86950	10000008	0,00000,03474,35447
109	0,03742,64979,40624	10000009	0,00000,03908,64858
1001	0,00043,40774,79319	100000001	0,00000,00043,42945
1002	0,00086,77215,31227	100000002	0,00000,00086,85890
1003	0,00130,09330,20418	100000003	0,00000,00130,28834
1004	0,00173,37128,09000 *D*	100000004	0,00000,00173,71779
1005	0,00216,60617,56507	100000005	0,00000,00217,14724 *I*
1006	0,00259,79807,19908	100000006	0,00000,00260,57668
1007	0,00302,94705,53619	100000007	0,00000,00304,00613
1008	0,00346,05321,09508	100000008	0,00000,00347,43558
1009	0,00389,11662,36913	100000009	0,00000,00390,86502
10001	0,00004,34272,76862	1000000001	0,00000,00004,34295
10002	0,00008,68502,11648	1000000002	0,00000,00008,68589
10003	0,00013,02688,05227	1000000003	0,00000,00013,02883
10004	0,00017,36839,58464 *E*	1000000004	0,00000,00017,37178 *K*
10005	0,00021,70029,72230	1000000005	0,00000,00021,71472
10006	0,00026,04985,47390	1000000006	0,00000,00026,05767
10007	0,00030,38997,84812	1000000007	0,00000,00030,40061
10008	0,00034,72966,85363	1000000008	0,00000,00034,74356
10009	0,00039,06892,49911	1000000009	0,00000,00039,08650

CAPVT.

Caput XIIII.

Dato cuicunque Logarithmo numerum absolutum conuenientem inuenire. & contra.

OStendimus cap. 11. quomodo numerus inter Chiliadas repertus, per partē proportionalem augeri possit, vt vix errori sit locus intra locum duodecimum. nunc ostendam quomodo ope huius in proximo præcedentis tabellæ, per solam subductionem & multiplicationem numerus verus quæsitus inveniri possit: si modo sit numerus rationalis, & quatuordecim aut paucioribus notis describi poterit.

Numeri qui hac tabella continentur, distinguntur per Novenarios. qui sunt à sinistris, sunt Vnitates, & vnitatis aliquot particulæ: à dextris è regione siti sunt eorum Logarithmi. Primi novem sunt Vnitates, & signantur litera *A*: proximi novem signati litera *B*, sunt vnitates, & vnitatum partes decimæ; vt $1\frac{1}{10}$, $1\frac{2}{10}$, $1\frac{3}{10}$. vel $1\underline{1}$, $1\underline{2}$, $1\underline{3}$, &c. Proximi novem signati litera *C*, sunt Vnitates & centesimę. reliqui Novenarij deinceps similiter, *D* millesimas adijciunt vnitati. *E* decies millesimas, &c. Horum ope, dato Logarithmo invenitur numerus conveniens absolutus ad hunc modum. Esto datus Logarithmus 3,66067,57883,3852. ab hoc (vbi Characteristicam deposuerit) Logarithmus Ternarij 0,47712,12547,19662, è primo Novenario desumptus auferatur, restabit 0,18355,45336,18858: à quo auferri poterit Logarithmus $1\underline{4}$ quem tabella hęc exhibet in secundo Novenario, deinde in proximo Novenario Logarithmus $1\underline{09}$ auferendus est, & restabit nihil. aio continuę factum ab his tribus 3. $1\underline{4}$ $1\underline{09}$, nempe 4578 esse numerum quęsitum. Tota operatio sic se habet.

0,66067,57883,3852. Logarithmus datus.	$1\underline{4}$ multiplicandus.
0,47712,12547,19662 ---- 3	3 multiplicator.
0,18355,45336,18858 reliquus.	$4\underline{2}$ factus.
0,14612,80356,78238 -------- $1\underline{4}$	$4\underline{2}$ multiplicandus.
0,03742,64979,40620 reliquus.	$1\underline{09}$ multiplicator.
0,03742,94979,40622 ------ $1\underline{09}$	378
0,00000,00000,00000	42
	$4\underline{578}$ factus.

Commodissimum autem erit è Chiliadibus sumere Logarithmum proxime minorem dato, qui auferatur è dato, eiusque numerus absolutus in margine repertus, notetur. reliqua vero sunt ope huius tabellæ peragenda. vt esto datus Logarithmus 3,48314,00744,3475 Logarithmus proximus in Chiliade quarte repertus est 3,48301,64201,4413. qui ablatus è dato relinquit 0000123-65429062. notato 3041 in margine reperto, quęro in hęc tabella Logarithmum relictum, vel ei proximum: quem subduco, adnotans eiusdem numerum absolutum. & progredior vt antea. operationis modum hic descriptum habes.

3,48314,00744,3475	
3,48301,64201,4413 ----	3041
0,00012,36542,9062	
0,00008,68502,11648 ----	$1\underline{0002}$
0,00003,68040,78972	
0,00003,47421,68882 ----	$1\underline{00008}$
0,00000,20619,10090	

0,00000,20619,10090
0,00000,17371,74453 - - - - 10000,04
3247,35637
3040,06031 - - - - 10000,007
207,29606
173,71779 - - - - 10000,0004
33,57827
30,40061 - - - - 10000,00007
3,17766
3,04006 - - - - 10000,0000,07
13760
13029 - - - - 10000,0000,003
731
434 - - - - 10000,0000,0001
297
261 - - - - 10000,0000,0006
36
34 - - - - 10000,0000,0000,08

In hac operatione habemus duodecim Logarithmos, quorum primus desumitur è Chiliadibus; sex proximi singuli è singulis novenarijs huius tabellæ, reliqui vero quinque ex vltimo novenario. Cum enim inter subsequentes novenarios & vltimum, hoc tantum interſit; quod subsequentium notæ significativæ, plures habent cyphras prępositas; vltimus ille non incommode poterit loco subsequentium vsurpari, si quo longius progredimur, eo plures notas amputemus: quod in antecedentibus factum fuisse observare poterimus. Hi duodecim Logarithmi, in vnam summam collecti, ęquantur dato Logarithmo: numeri autem è regione locati, sunt factores, qui per continuam multiplicationem numerum producunt dato Logarithmo convenientem. Nec magnopere refert vnde multiplicatio incipiat, modo factus à primo in secundum, multiplicetur per tertium; & factus secundus, per quartum: & deinceps eodem modo, donec singuli factores reliqui, prędecedentem factum multiplicaverint. vt 3041 per 10002, factus erit 30416082. qui multiplicatus per tertium 100008, facit 3041851528656, vt hic vides.

3041 } factores
10002 }

3041 - - - -
6082

30416082. factus
100008. factor

30416082 - - - - -
243328656

3041851528656. factus
1000004. factor

3041851528656 - - - - - -
1216740611462 4

304186369606211. factus
212930459 - - - - 10000,007

304186582536670. factus
12167463 - - - - 10000,0004

304186594704133
2129306 - - - - 10000,00007

304186596833439

30418659683343 9
212930 ---- 10000,0000,07
30418659704636 9
9125 ---- 10000,0000,003
30418659705549 4
304 ---- 10000,0000,0001
30418659705579 8
182 ---- 10000,0000,00006
30418659705598 0
24 ---- 10000,0000,0000,08
30418659705600 4

Tandem hi factores nobis numerum quęsitum dederunt 30418659705600 4.

Dato cuilibet numero absoluto, Logarithmum congruum invenire.

Superius ostendimus, quomodo dato Logarithmo numerus conveniens absolutus siti inveniendus; per subductionem Logarithmorum in prędcedente tabella comprehensorum, & continuam multiplicationem numerorum è regione positorum: hic contra ostendendum, quomodo dato numero Logarithmus conveniens sit quęrendus; per dati divisionem, & Logarithmorum quotis respondentium additionem. Si datus numerus quatuor tantum notis scribatur, eius Logarithmus inter Chiliadas descriptus habetur. sin pluribus; sumatur numerus primis quatuor notis comprehensus (nisi forte animi causa, aut tentandi an vtroque modo eadem omnia eventura sint, duarum aut trium notarum numerus magis arrideat) is datum numerum ita dividat, vt postquam divisorem semel subduxeris è dividendo, factus à divisore ducto in quotum inventum, addatur semper divisori: quotorum autem particularium in tabella reperti Logarithmi, addantur divisoris primi Logarithmo: totus erit dati numeri quęsitus Log. vt sit datus numerus 30418515286 56, hunc numerū divido per 3041, quem subduco è numero dividendo, adnotans in quoto 1: restabit 851528656. deinde pergo, & post tres cyphras pono 2 in quoto, & factum à 2 in datum divisorem subduco à dividendo, subscribens reliquum. postea eundem factum addo divisori, & per eundem auctum, reliquum divido; factum auferens è dividendo, & eundem addens divisori: vt antea. totius operationis modum hic cernere poteris.

A. 3041 ---- divisor datus.
6082 factus primus.
C. 30416082 divisor auctus.
243328656 factus secundus.
E. 30418515286 56 divisor auctus.

30418515286 56 (100028
3041
851528656
6082 ----- factus primus.
243328656
243328656 factus secundus.

	Logarithmi.
A. Divisoris dati 3041	34830164201 4413
B. Quoti secundi 10002	00000868502 11648
C. Divisoris aucti.	34831032703 55778
D. Quoti tertij 100008	00000347421 68882
E. Divisoris aucti denuo.	34831380125 24660

Horum omnium demonstratio petenda est è capite secundo. sunt enim Divisor datus *A*, & Quotus secundus *B*, factores Divisoris aucti *C*: qui alius est à divisore dato, & non iniuria appellari poterit divisor secundus. eiusque Logarithmus ęquatur Logarithmis *A* & *B*. per 3. ax. cap. 2. deinde secundus di-

viſor idem negotium ſuſcipit, dividens totum datum numerum, & inveniens quotum tertium 100008. nam licet vltima quoti nota multiplicet tantummodo, & factus ab eodem, ſolus auferatur è reliquo, tamen intelligimus factum ab vnitatis nota etiam auferri, in ea diviſione quæ huius vltimi quoti inventionem præceſſit: idcirco ſi huius vltimi quoti *D* Logarithmus, addatur Logarithmo diviſoris ſecundi *C*, totus erit Logarithmus diviſoris denuo aucti *E*: id eſt ipſius dividendi.

Progreditur enim hæc diviſio, eouſque augens diviſorem, donec acceſſione factorum tandem fiat æqualis ipſi dividendo dato, cuius Logarithmus quæritur. quod altero exemplo manifeſtum facere conabor.

Eſto datus numerus cuius Logarithmus quæritur 296682051456, hunc divido per 2966. totam operationis ſeriem hic cernis.

2966---- diviſor datus	296682051456 (100027662431547
5932 factus 1us *A*	2966
29665932----- diviſor 2us	82051456 Quoti
207661524. *B* factus 2us	*A*--5932 - - - - - - 2
296680086 1524. diviſor 3us	22731456
17800805. *C*	*B*--207661524 - - - 7
2666818662329. 4us	19653036
1780091. *D*	*C*--17800805169144 6
296682044 2420. 5us	1852230831
59336. *E*	*D*--1780091197 - - 6
296682050 1756. 6us	72139634
11867. *F*	*E*--59336409 - - 2
296682051 3623. 7us	12803225
890. *G*	*F*--11867282 - - 4
296682051 4513. 8us	935943
30. *H*	*G*--890046 - - 3
296682051 4543. 9us	45897
15. *I*	*H*--29668 - - 1
296682051 4558. 10us	16229
1. *K*	*I*--14834 - - 5
296682051 4559. 11us	1395
	K--1187 - - 4
	208
	L--207 - - 7
	1

Logarithmi.

Diviſor datus 2966	- - 3,47217,11466,9237	Quoti
Logarithmi Quotorum	0,00008,68102,11648	10002
quos hic cernis, additi	0,00003,03995,49757	100007
Logarithmo dati diviſo-	0,00000,26057,59074	1000006
ris, conſtituũt Logarith-	0,00000,02605,76611	10000006
mum dati numeri. Quẽ	0,00000,00086,85890	100000002
verum eſſe deprehende-	0,00000,00017,37178	1000000004
mus, ſi eum conferamus	0,00000,00001,30288	10000000003
cum Logarithmis nume-	0,00000,00000,04343	100000000001
rorũ 9072. 6036. 5418.	0,00000,00000,02171	100000000005
quorum continua mul-	0,00000,00000,00174	1000000000004
tiplicatio, producit datũ	0,00000,00000,00030	10000000000007
numerũ 296682051456	- - 3,47229,12733,49534	

Hactenus de creatione & affectionibus Logarithmorum. Sequuntur quædam ad eorum vſum ſpectantia.

CAPVT.

CAPVT XV.

Regula proportionum Logarithmica, vel Aureæ regulæ quinta eſſentia.

REgula proportionum vulgaris oſtendit, quomodo datis tribus numeris inveniri poſſit quartus proportionalis, per multiplicationem & diviſionem. idem præſtabit hæc regula, ſed multo facilius per additionem & ſubductionem.

Si è ſumma Logarithmorum ſecundi & tertij auferatur Logarithmus primi: reliquus erit Logarithmus quarti. vt ſunto dati 3. 8. 18.

Logarithmi.

prop.
- 3. 0,4771,21254. *A*
- 8. 0,9030,89987. *B*
- 18. 1,2552,72505. *C*
- 2,1583,62492. *D*
- 48. 1,6812,41238. *E*

D eſt ſumma mediorum, è qua *A* ablatus, relinquit *E* Logarithmum numeri 48, quarti proportionalis.

Huius propoſitionis veritas demonſtratur, ex ipſa definitione Logarithmorum, & ſecundo Lemmate Capitis primi. Eſt enim ſumma extremorum æqualis ſummæ mediorum, & idcirco eadem eſt differentia primi & ſecundi, quæ eſt tertij & quarti: & eadem ratio primi numeri ad ſecundum, quæ eſt tertij ad quartum. Eundem quarti quæſiti Logarithmum inveniemus, ſi loco primi Logarithmi ſumatur eius complementum Arithmeticum (de quo capite 11.) & conijciatur in eandem ſummam cum duobus reliquis datis. Summa hæc ſi vnitatis nota in primo verſus ſiniſtram loco ſita auferatur, erit Logarithmus quarti quæſiti. cuius rei cauſa eſt, quod cum primus Logarithmus debuit è reliquis auferri: nos non modo nihil abſtulimus, ſed inſuper reliquis adiecimus eius complementum, id eſt reliquum Denarij. adeo vt totus, ſupra quartum quæſitum, contineat, & primum Logarithmum, & eiuſdem complementum, id eſt integrum Denarium. ablata idcirco vnitatis nota, quæ ſemper primam occupabit ſedem (id eſt ablato Denario) reſtabit quartus Logarithmus. vt hic vides:

Logarithmi.

prop.
- 6. 077815125
- 15. 11760 9126
- 26. 141497335
- 259106461 ſumma mediorũ
- 65. 1812913 36 quartus

pro-port.
- 6 922184875 complement
- 15 11760 9126
- 26 141497335
- 65 1181291336 ſumma.

Quod ſi duo vel plures Logarithmi ſint auferendi, poterimus vniuſcuiuſque commplementum addere, auferentes è toto tot vnitates, quot fuerint complementa.

Huius compendij primus me admonuit collega & amicus meus ſummus M. Edm. Gunter. Aſtronomiæ profeſſor in Collegio Greſhamenſi.

Sed hæc fere vulgaria ſunt, ſi operationis facilitatem excipias: ſequuntur quædam, quæ per Logarithmos facillime; ſine illis, vix præſtari poterunt. Datis tribus numeris, ſi cogitemus ſeriem quotlibet numerorum continue proportionalium, ſitam eſſe, inter tertium datum & quartum proportionalem; eamque ſeriem vtrinque continuari: poterimus quemlibet eorundem, cuius ſitus datus fuerit invenire. Aio. In ſerie continue proportionalium, ſi datæ fuerint ratio & diſtantia duorum terminorum, vnà cum numero quolibet; poterimus alterum, cuius diſtantia ſupra vel infra datum, nota fuerit, invenire.

Sint dati tres numeri *A* 8. *B* 27. *C* 432. & sit ratio primi proportionalium ad quartum vt *A* ad *B*: quęritur numerus supra *C*, inter quem & *C* sint quatuor intermedij, vel quinque intervalla.

Inprimis sumendi sunt Logarithmi numerorum *A* & *B*, & eorum differentia quæ sit *F*. & cum tria sint intervalla inter primum & quartum, sumatur *G* pars tertia huius differentiæ. hæc pars, erit differentia Logarithmorum, pro vnico intervallo; vel pro numeris quibuslibet in tota serie proximis.

Deinde sumatur dati numeri *C* 432 Logarithmus *D*. & si proximum supra datum vel infra habere velimus; addatur vel auferatur Logarithmo *D*, differentia *G* vnius intervalli. Sin quæramus aliqnem à dato remotiorem; differentia *G* multiplicanda est pro distantiæ ratione; deinde addenda vel auferenda Logarithmo *D*: totus vel reliquus, inter Chiliadum Logarithmos repertus, ostendit in margine numerum quęsitum. vt hic vides.

	Logarithmi.		Numeri continue proportionales.	
A. 8.	0,90308,99869,9194			
B. 27.	1,43136,37641,5899			
Differētia.	0,52827,37771,6705. *F*			
⅓ differen.	0,17609,12590,5568. *G*			
C. 432.	2,63548,37468,1491. *D*			
	0,17609,12590,5568. 1 *G*			
648.	2,81157,50058,7059. D+1*G*			
972.	2,98766,62649,2627. D+2*G*			
	0,88045,62952,7840. 5*G*			
$3280\frac{1}{2}$.	3,51549,00420,9331. D+5*G*			
C. 432.	2,63548,37468,1491.			
	0,52827,37771,6704. 3*G*			
128.	2,10720,99696,4787. D−3*G*			
			$3280\frac{1}{2}$ - - -	9
			2187 - - -	8
			1458 - - -	7
			972 - - -	6
			648 - - -	5
		27	432 Datus	4
		18	288 - - -	3
		12	192 - - -	2
		8	128 - - -	1

Atque ad hunc modum invenimus per additionem differentiæ *G*, 648 proximum supra *C*: & 972 secundum, & $3280\frac{1}{2}$, quintum ab eodem, ex eadem parte. Eodem modo per subductionem differentiæ *G* triplicatæ, invenimus 128 tertium infra *C*. Horum omnium veritas constat ex primæ definitionis vi: quæ eos numeros proportionales esse confirmat, quorum Logarithmi sunt æquidifferentes. Atque hæc est illa numerorum proportionalium regula vere aurea, quæ nobis exhibet, non tertium solum, aut quartum, aut medium proportionalem; sed omnino quemlibet è continue proportionalibus, intra tertium & quartum, vel extra; sive vlteriorem quęramus, sive citeriorem. ab hac regula tanquam ab vberrimo fonte, plurima eorum quæ sequuntur dimanarunt.

8 } pro-
27 } port.
432 }
1458 }

Caput XVI.

Dati cuiuscunque numeri latus quodlibet invenire.

IN numeris ab vnitate continue proportionalibus, vt 1. 3. 9. 27. 81. 243. 729. 2187. numerus ille qui est vnitati proximus, dicitur latus omnium subsequentiū. subsequentes vero dicuntur potestates eiusdem lateris: quia fiunt per multiplicationem eiusdem lateris in seipsum, & in factos à seipso. Horum secundus ab vnitate dicitur Quadratus, tertius Cubus, quartus Biquadratus: reliqui vero remotiores, sortiuntur nomina, secundum illam quam obtinent ab vnitate distantiam. vt quintus dicitur potestas quinta; reliquique eodem modo. Characteres vero, quibus isti cognoscuntur & distinguntur invicem,

cem, ſunt numerorum notæ circulis incluſæ, vt hic vides.

1	In iſtis 3 eſt latus Quadrati 9. idem 3 eſt latus Cubi 27,
3 (1)	& Biquadrati 81, idemque eſt latus (7) poteſtatis ſeptimæ
9 (2)	(quæ eſt harum vltima) 2187. Idcirco, ſecundum ea quæ
27 (3)	ſuperiori capite tradita ſunt, ſumatur differentia Loga-
81 (4)	rithmorum numeri propoſiti & vnitatis, (id eſt cum Lo-
243 (5)	garithmus vnitatis ſit 0 ſumatur ipſe Logarithmus dati
729 (6)	numeri) & per numerum intervallorum inter datum nu-
2187 (7)	merum & vnitatem dividatur; quotus erit Logarithmus

lateris quæſiti. vt ſi Quadrati latus quæratur, ſumatur ſemiſſis dati Logarithmi, ſi cubi triens, ſi poteſtatis (7) pars ſeptima, &c. hæc pars erit Logarithmus quæſiti lateris. vt ſit datus 15625 poteſtas ſexta. huius Logarithmus 4,19382,00260,1611. quæritur latus (6). ſumatur igitur inventi Logarithmi pars ſexta 0,69897,00043,3602 huic Logarithmo reſpondet 5. aio 5 eſſe latus quæſitum. vt in his numeris apparet, 1. 5. 25. 125. 625. 3125. 15625.

Eſto datus Cubus 979: quæritur latus cubicũ. Logarithmus dati eſt 2,99078, 26918,0314. huius triens ſumendus eſt: 0,99692,75639,3438. in hoc exemplo, vt & in ſuperiori, Characteriſtica (quam cap. 4. accepimus eſſe primam notam verſus ſiniſtram) diligenter eſt reſpicienda. itaque cum datæ primæ notæ pars tertia ſumi nequit, pono 0 loco primo quoti, pro Characteriſtica eiuſdem, quæ oſtendit latus quæſitum eſſe minus denario.

Et cum in integris latus nullum inveniri poſſit, cogitemus latus quæſitum multiplicari per 10000, cuius Logarithmus 4,00000,00000,0000 addatur trienti invento, totus erit 4,99692,75639,3438, cui in vltima Chiliade reſpondet 99295 & amplius. quod per differentias & partem proportionalem ſatis accurate invenitur 9929504202,067. id eſt 992950420206̲7̲, vbi Novenario partes ſunt adiunctæ. quod autem duæ vltimæ notæ ſunt maiores quam oportuit 06̲7̲: pro quibus ſubſtitui debent 04̲7̲, admonui cap. 11. & capite 12. oſtendi, quomodo proxime poſſimus ad verum latus quæſitum accedere.

Atque ad hunc modum latus propoſitæ cuiuſcunque poteſtatis haberi poterit, ſi non vere, tamen proxime. & non tantum latus, ſed alius quilibet eiuſdem ſeriei; vel intra datam poteſtatem & vnitatem, vel in gradu remotiore. vt ſi data ſit poteſtas ſexta 16525: Logarithmus lateris inventus eſt 0,69897, 00043,3602. ſi cupiam ſcire quartam poteſtatem eiuſdem lateris, multiplico inventum Logarithmum lateris per quaternarium, fit 2,79588,00173,4408, cui congruit numerus 625. ſin ſcire velim poteſtatem nonam eiuſdem, multiplico per 9. factus 6,29073,00390,2418 erit eiuſdem Logarithmus. cuius characteriſtica 6 oſtendit, in numero quæſito eſſe ſeptem notas; & idcirco, eum eſſe maiorem, quam vt inter iſtas Chiliadas reperiri poſſit. idcirco minuo illam primam notam, pro 6 ſubſtituens 4, eritque Logarithmus 4,29073,00390,2418 quærendus in viceſima Chiliade, cui proxime congruit 19531. ſed cum velim quod huic numero deeſt, in partibus ſupplere; & pars proportionalis addenda in hac Chiliade non ſit adeo perfecta; per præceptum cap. 11. capio dati Logarithmi complementum 0,70926,99609,7582, quod quærendum eſt inter Logarithmos paginæ 22 (prout præcepto & exemplo oſtendit pag. 23.) vbi ipſe numerus præter ſpem invenitur, (eique è regione ſitus eſt 512) hic adiectus dato, dat 1,00000,00000,0000. cui numerus abſolutus reſpondet (ſi Characteriſticam augeamus) 100000. qui diviſus per 8.8.8. factores numeri 512, dat quotum vltimum 195312̲5̲, vt hic vides.

	5.(1)
	25.(2)
	125.(3)
Dividendus 1.00000	625.(4)
Diuiſor 1us 8.12500 quotus primus.	3125.(5)
Diuiſor 2us 8. 15625 quotus ſecundus.	15625.(6)
Diuiſor 3us 8. 1953125 quotus vltimus.	78125.(7)
	390625.(8)
	1953125.(9)

Hic quotus vltimus, eſt poteſtas nona lateris 5 prius inventi.

Sunt etiam in partibus Latera, Quadrati, Cubi, &c. vt hic vides. & harum latera inveniri poterunt per Logarithmos. Sumatur enim datarum partium Logarithmus defectivus, vt capite 10 oſtendimus. eius ſemiſſis erit Logarithmus lateris quadrati, triens cubici, &c. vt ſint datæ partes $\frac{8}{27}$, earum Logarithmus erit —0,52827,3777-71,6705, harum partium quæritur latus cubicum. Sumendus eſt triens dati Logarithmi —0,17609,12590,5568. numerus huic Logarithmo congruens erit denominator partium quæſitarum, quarum numerator erit Vnitas. denominator erit 15. eſt enim numerus minor denario, cum Characteriſtica ſit 0. eſt igitur latus quæſitum $\frac{1}{15}$. Si earundem partium quæratur latus quadraticum, ſumendus eſt ſemiſſis dati Logarithmi —0,26413,68885,8352, cui reſpondet 18371173 denominator lateris quæſiti, cuius numerator eſt 1. Quod autem numerator partium debeat eſſe 1, hinc poteſt eſſe manifeſtum. quod differentia Logarithmorum numeratoris & denominatoris eſt Logarithmus partium, vt capite 10 oſtendimus. idcirco ſi quæratur denominator huic Logarithmo congruens, neceſſe eſt vt numeratoris Logarithmus ſit 0: id eſt, vt numerator ſit 1. aliàs fieri non poterit, vt illa data Logarithmorum differentia ſervetur. Quod ſi eaſdem partes alijs numeris exprimi velimus, poterit numerus quilibet ſumi pro numeratore, vel denominatore. Si aſſumptus fuerit numerator, eius Logarithmo * addatur Logarithmus partium: totus erit Logarithmus denominatoris. vt lateris cubici partium $\frac{8}{27}$ Logarithmus inventus eſt —0,17609,12590,5568. eſto lateris quæſiti numerator 12; huius Logarithmo 1,07918,12460,4762, ille alter adiectus dat 1,25527,25051,0330, cui congruit 18, qui erit denominator. ita vt latus quæſitum ſit $\frac{12}{18}$. Sin aſſumptus fuerit denominator, Logarithmus partium, auferendus eſt è Logarithmo dati denominatoris, eritque reliquus Logarithmus numeratoris. vt eſto denominator eiuſdem lateris cubici quæſiti 36, eius Logarithmus 1,55630,25007,6729, à quo auferatur lateris quæſiti inventus Logarithmus, reſtabit 1,38021,12417,1161, Logarithmus numeratoris 24, ait latus quæſitum eſſe $\frac{24}{36}$. Partes enim, vtcunque ſcribantur, eundem ſervant valorem, ſi eadem ſit ratio numeratoris ad denominatorem: & idcirco ſi Logarithmorum numeratoris & denominatoris eadem fuerit differentia, termini ex definitione Logarithmorum erunt proportionales, & partes ipſæ erunt æquales. exemplum hic vides.

	Logarithmi.	
8	0,90308,99869,9194	
27	1.43136,37641,5899	
$\frac{8}{27}$	—0,52827,37771,6705	
$\frac{1}{3}$ (3) $\frac{8}{27}$	—0,17609,12590,5568	—$\frac{1}{15}$
12	1,07918,12460,4762	
$\frac{1}{3}$ (3) $\frac{8}{27}$	—0,17609,12590,5568	$\frac{12}{18}$
18	1,25527,25051,0330	

* Locutio hæc eſt minus propria: cùm reuera ſit ſubducendus Logarithmus Defectivus ex Abundante. quod cum fiat per additionem, loquendum cenſui vt ſolet vulgus.

Poterimus

Poterimus etiam latus quodlibet partium datarum invenire si quæramus latera Numeratoris dati & Denominatoris. vt latus cubicum $\frac{8}{27}$ est $\frac{2}{3}$.

Sunt enim terminorum datorum latera homogenea, termini lateris quæsiti. vt partium $\frac{8}{27}$, latus cubicum est $\frac{2}{3}$. cuius numerator 2 est latus cubicum dati numeratoris 8. & denominator 3, est latus item cubicum denominatoris 27. Si quæratur latus quadrati $\frac{729}{4096}$.

		Logarithmi.	
Termini dati	729	2,86272,75283,1797.	2. *A*
	4096	3,61235,99479,6776.	2. *B*
Termini quæsiti	27	1,43136,37641,5898.	1. *A*
	64	1,80617,99739,8388.	1. *B*

latus (2) datarum partium $\frac{729}{4096}$ est $\frac{27}{64}$.

Quod si in partibus alium quemlibet numerum quæramus in eadem serie cum latere positum, multiplicetur Logarithmus lateris pro ratione distantiæ ab vnitate: factus erit Logarithmus homogeneus numeri quæsiti. vt si datæ sint partes $\frac{3125}{16807}$ cupio scire è quatuor continue proportionalibus inter datas partes & vnitatem quisnam sit tertius ab vnitate, cum autem quatuor sint medij, erunt quinque intervalla; & pars quinta Logarithmi datarum partium, erit Logarithmus lateris, qui triplicatus erit Logarithmus numeri ab vnitate tertij. totam operationem hic oculis subiectam habes.

	Logarithmi.	
partes datæ $\frac{3125}{16807}$	3,49485,00216,8009	
	4,22549,02000,7129	
partiũ Logarith. *A* —	0,7?064,01783,9120.	5. *B*
lateris (5) - - *B* —	0,14612,80356,7824.	1. *B*
Logarithm. cubi *C* —	0,43838,41070,3472.	3. *B*
D —	1,02289,62497,4768.	7. *B*

Cubus, vel tertius ab vnitate quæsitus $\frac{1000}{2744}$ vel $\frac{125}{343}$.

Si quæratur septimus ab vnitate multiplicetur Logarithmus lateris per 7, factus *D* — 1,02289,62497,4768 dabit $\frac{10000000}{10341344}$ vel $\frac{78125}{823543}$.

Atque hic modus nobis dabit quemlibet numerum vnitate minorem in eadem serie cum data. Quod si aliquem numerum scire velimus in eadem serie continuata supra vnitatem, multiplicetur idem Logarithmus lateris, per numerum intervallorum inter quæsitum & vnitatem: factus erit Logarith. numeri quæsiti. adeo vt idem sit Logarithmus æquidistantium ab vnitate vtrinque. hoc autem interest inter æquales, quod numeri supra vnitatem Logarithmus sit Abundans; infra vnitatem vero Defectivus.

Atque vt Logarithmi vtrinque æquidistantium, ijsdem notis scribuntur: sic ijdem termini transpositi vtrumque numerum absolutum exprimunt. vt in his ipsis quos nuperrime quærebamus numeris. vnitati vtrinque proximi sunt $\frac{5}{7}$ & $\frac{7}{5}$. Cubi vel tertij ab vnitate vtrinque, sunt $\frac{1000}{2744}$ & $\frac{2744}{1000}$, vel $\frac{125}{343}$ & $\frac{343}{125}$. Istque Vnitas semper media proportionalis inter vtrinque æquidistantes in eadem serie. Atque ad hunc modum in numeris ab vnitate continue proportionalibus, poterimus à partibus ascendere ad integros, & contrà ab integris descendere ad partes.

Caput XVII.

Datis duobus numeris, vnà cum numero mediorum continue proportionalium inter datos; quemlibet imperatum in eadem serie invenire.

OStendimus quomodo in numeris ab vnitate continue proportionalibus, vnitati proximus quem appellamus latus, vel alius quilibet citra vel vltra

datum inveniri poſſit. Nunc oſtendendum quomodo mediorum inter duos quoſlibet proportionalium quilibet imperatus inveniatur. quod cum non indigeat novo præcepto, exemplo vno aut altero illuſtrare conabor. Sunto dati duo numeri 729 & 15625. & ſint inter datos quinque intermedij.

Sumendi ſunt Logarithmi datorum, & eorum differentia, quæ ſecanda eſt in partes ſex, pro numero intervallorum inter datos numeros; deinde ſi *A* pars ſexta datæ differentiæ, multiplicata pro ratione diſtantiæ numeri quæſiti à dato, eiuſdem dati Logarithmo addatur vel auferatur; totus vel reliquus erit Logarithmus numeri quæſiti. vt hic cernimus.

		Logarithmi.		
Dati	729. *B*	2,86272,75283,1797	$944\frac{7}{8}\frac{8}{4}$. B—D	Numeri continue proportionales.
	15625. *C*	4,19382,00260,1611	$157\frac{4}{6}\frac{6}{4}$	
		1,33109,24976,9814. 6. *A*	$26\frac{2}{4}\frac{4}{4}$	
	A	0,22184,87496,1636. 1. *A*	$43\frac{7}{4}$	
	D	0,88739,49984,6544. 4. *A*	729 - - B	
	B	2,86272,75283,1797	1215	
5625 - - - - -		3,75012,25267,8341. B+D	2025 - - C—D	
$944\frac{7}{8}\frac{8}{4}$ - - -		1,97533 25298,5253. B—D	3375	
$12056\frac{3}{8}\frac{3}{1}$ - - - -		5,08121,50244,8155. C+D	5625 - - B+D	
2025 - - - - -		3,30642,50275,5067. C—D	9375	
			15625 - - C	
			$26041\frac{2}{3}$	
			$43402\frac{7}{9}$	
			$72337\frac{26}{27}$	
			$12056\frac{3}{8}\frac{3}{1}$ - - C+D	

Si *A* pars ſexta differentiæ Logarithmorum datorum, multiplicetur per 4, & factus *D* addatur Logarithmo numeri *B*, totus dabit 5625 quartum continue proportionalium ſupra *B*. ſin auferatur ab eodem dabit $944\frac{7}{8}\frac{8}{4}$ quartum infra eundem. Eodem modo inveniuntur numeri ſupra & infra *C*.

Exemplum alterum.

Sint dati 10 & 11, & ſint inter datos duodecim intervalla.

		Logarithmi.
Dati	10. *B*	1,00000,00000,0000
	11. *C*	1,04139,26851,5823
		0,04139,26851,5823. 12. *A*
	A	0,00344,93004,2985

Cupio ſcire ſeptimum à minore intra datos. qui eſt $10571\frac{7}{2}\frac{2}{1}\frac{9}{7}\frac{2}{0}\frac{0}{9}$.

	B. 1,00000,00000,0000
	0,02414,57330,0895. 7 *A*
$10571\frac{7}{2}\frac{2}{1}\frac{9}{7}\frac{2}{0}\frac{0}{9}$ - -	1,02414,57330,0895. *B* + 7 *A*

Eodem modo invenire poterimus quemlibet intra datos vel extra.

Exemplum huius videamus in Anatociſmo, cum ſingulis annis ſorti accedant ſex centeſimæ: quæ vſura, apud antiquos, (qui fœnus epidecatum improbarunt) civilis & modica cenſebatur. Eſto data ſors 123 librarum: cupio ſcire quantum debet ſorti accedere, ad finem quotlibet annorum, menſium vel dierum; ſi totius anni lucrum, ita in ſingulos menſes vel dies diſtribuatur, vt lucro temporis cuiuſlibet ſorti adiecto, ea perpetuo ſervetur ratio ſortis ad aggregatum ſortis & lucri; vt totius anni lucrum, centum nummorum ſorti, ſex tantum nummos adijciat.

Inprimis ſumantur Logarithmi datorum terminorum rationis, 100 & 106, & eorum differentia *B*, quæ dicatur annua. ea in partes duodecim diviſa, dabit in quoto differentiam *C* menſtruam: quæ diviſa per $30\frac{1}{2}$, quot fere ſunt dies

in

in menſe æquabili, dabit in quoto differentiam *D* diurnam. quam ſi accuratius noſſe velimus, dividenda eſt differentia annua per 365, numerum dierum in anno communi Iuliano. Deinde ſumatur Logarithmus datæ ſortis.

		Logarithmi.	
Termini datæ rationis	100	2,00000,00000,0000	
	106	2,02530,58652,6477	
	B	0,02530,58652,6477	differentia annua.
	C	0,00210,88221,0540	differentia menſtrua.
	D	0,00006,93311,3771	differentia diurna.
Sors 123	*A* - - -	2,08990,51114,3940	

Iſtis ad hunc modum pararis, ſi quæratur quantum debet ſorti accedere ad finem annorum ſeptem, menſium quinque, & dierum novem: multiplicentur ſingulæ differentiæ per ſuos numeros; & addatur factorum ſumma Logarithmo ſortis; totus erit Logarithmus aggregati ſortis & lucri, ad finem temporis conſtituti.

Quantum in Anatocismo pro temporis ratione debeat ſorti in

lucro accedere

7 annorum differentia		0,17714,10568,5339.	7.B
5 menſium differentia		0,01054,41105,2700.	5.C
9 dierum differentia		0,00062,39802,3939.	9.D
factorum ſumma	*E*	0,18830,91476,1978	
Logarithmus ſortis		2,08990,51114,3940	123$\frac{1}{2}$
Totus - - - -		2,27821,42590,5918	189$\frac{7641891}{}$
Reliquus - - -		1,90159,59638,1962	79$\frac{7252637}{}$

pretio decedere

Quod ſi eadem factorum ſumma auferatur è Logarithmo ſortis, reliquus erit Logarithmus iuſti pretij, quo ſors præſenti pecunia redimi poſſit, ſi numeretur tot annos, menſes & dies, ante diem ſolutioni conſtitutam. vt in hoc exemplo.

Aio 123 minas ad finem annorum 7, menſium 5, & dierum 9, valere 189$\frac{7642}{}$, id eſt 189—15—34$\frac{1}{}$. Et ſi ſolutionis dies, quo 123 minæ ſint ſolvendæ, totidem annos menſes & dies diſtet ab hoc tempore: iuſtum redemptionis pretium ſi pecunia repręſentetur eſſe 79$\frac{7253}{}$, vel 79—14—6$\frac{06}{}$. Et eâdem fœnoris ſervatâ ratione; ſortem 79—14—6$\frac{06}{}$ poſt annos 14, menſes 10, & dies 18, valere 189—15—34$\frac{1}{}$.

Idem erit operationis modus, datâ aliâ quacunque ratione ſortis ad lucrum: pro dato quolibet temporis ſpatio, ante vel poſt diem ſolutionis.

2. *Datis ſorte & quotlibet annorum lucro: quæritur ratio ſortis ad lucrum vnius anni, vel menſis, vel diei.*

Eſto data ſors nummorum 1234: cupio decennij ſpatio, ſorti addere 766: vt ſumma ſortis & lucri fiat 2000.

Sumatur differentia Logarithmorum ſortis & ſummæ: huius differentiæ pars decima erit differentia annua, quæ ſortis Logarithmo adiecta, dabit Logarithmum ſortis auctæ lucro vnius anni.

	Logarithmi.	
Sortis 1234 - - - - - - - - - -	4,09131,51596,9723	
Sortis lucro decēnali auctæ 2000	4,30102,99956,6398	
	0,20971,48359,6675	differentia decennalis.
	0,02097,14835,9667	differentia annua.
Sortis auctæ lucro vnius anni	4,11228,66432,9390	129505032.

Primi anni lucrum ſorti additum dabit 129505032.

Eadem differentia annua addita Logarithmo millenarij, dabit iuſtum fœnoris incrementum annuum ſuprá mille.

	Logarithmi.	
1000	3,00000,00000	
	0,02097,14836	differentia annua.
1049473517	3,02097,14836	

Aio mille nummos annuo ſpatio parere $49\frac{1}{2}$ fere.

Eodem modo vſura menſtrua vel diurna pro data ſorte inveniri poterit, quæ ſi per decennium continuetur, dabit cum ſorte nummos 2000.

Pro vſura menſtrua dividenda eſt differentia decennalis per 120, numerum menſium in decennio. pro diurna, per 3652.

	Logarithmi.		
differentia menſtrua	0,00174,76236,3306		
differentia diurna	0,00005,74246,5388		
1234 ſortis - - - - -	4,09131,51596,9723	1234	
ſortis auctæ ad finẽ primi mẽſis	4,09306,27833,3029	1238975685	1238—19—616
ſortis poſt primum diem	4,09137,25843,5111	1234163177	1234—3—316
primus menſis ſorti adijciet		4—19—616	
primus dies		0—3—316	

3. *Annua penſio quantum valeat ad finem quotlibet annorum, & quo pretio redimi poſſit pro quotlibet annorum ſpatio ante tempus primæ ſolutioni conſtitutum.*

Titius debet ſolvere Sempronio decies 57 minas, prima ſolutio fieri debet ad finem quinquennij, deinde annuatim tantundem donec ſolutæ fuerint 570. hoc nomen redimere cupit Titius præſenti pecunia, factâ æſtimatione ſecundum vſuram menſtruam ſemicenteſimam, quæ ſingulis annis ſorti addit ſex centeſimas.

1. Inprimis quærenda eſt ſors quæ ſecundum datam rationem, vnico anno dat incrementum 57 minarum.

		Logarithmi.
pro-	6	0,77815,12504
	100	2,00000,00000
port.	57	1,75587,48557
ſors inventa - -	950	2,97772,36053

Logarithmus ſortis inuentus per cap. 15. dat ſortem 950.

Deinde per 1. prop. huius capitis, quæritur valor ſortis & lucri ad finem decennij. ſumendi ſunt termini rationis datæ, & eorum Logarithmi, & Logarithmorum differentia: quæ multiplicata per numerum annorum, & addita Logarithmo ſortis inventæ, dabit Logarithmum totius pecuniæ quæ ad finem decennij, pro hac ſorte debetur, ſi interim nulla facta fuerit ſolutio. ab hac ſumma ſi ſors auferatur, reſtabit pecunia quam annuarum penſionum coacervatio peperit.

		Logarithmi.	
Termini rationis	100	2,00000,00000	
	106	2,02530,58653	
		0,02530,58653	differentia annua.
		0,25305,86526	differentia decennalis.
ſortis inventæ		2,97772,36053	
ſortis auctæ per decenniũ		3,23078,22579	1701305 31

Ad finem decennij ſors aucta erit 1701305 31, ab hac ſumma auferenda eſt ſors illa prius aſſumpta 950. quâ ſublatâ reſtant minæ 751305 31, quæ ex ipſis penſionibus accumulatis & auctis proveniebant.

2. At Sempronio (cum non neceſſe ſit primam ſolutionem fieri ante finitum quinquennium) tandem expectanda eſt hæc ſumma poſt annos totos qua-

quatuordecim. Quæritur igitur quanta diminutio huius ſummæ fieri debeat, ſi præſentem pecuniam deſideret.

		Logarithmi.
Totius pecuniæ ſumma	75130531	2,87581,64581
differentia pro annis quatuordecim		0,35428,21136
pretium - - - - - - -	3323030636	2,52153,43445

Si quatuordecim annorum differentia auferatur è Logarithmo ſummæ, reſtabit Logarithmus pretij, 3323030636. quod ſecundum datam rationem, in annis 14, eandem dabit pecuniæ ſummam, quã penſiones coacervatæ valebant.

4. *Data pecuniæ ſumma & ratione incrementi pro dato annorum numero, invenire reditum annuum.*

Sunto, data ſumma 300 minæ, data ratio incrementi annui 100 ad 106, datum tempus ad decennium, & fiat ſolutio prima ad finem quinquennij. quæritur quis ſit annuus reditus.

Hæc quæſtio vix aliter expediri poterit, quam per proportionem. ad hunc fere modum.

Ponamus annuum reditum quemlibet pro tempore conſtituto. & per 3. prop. huius capitis quæratur pretium eiuſdem ſtatim numerandum. deinde per proportionem, erit pretium poſiti reditus, ad datam pecuniæ ſummam: vt reditus annuus poſitus, ad reditum quæſitum.

Sit poſitus reditus annuus minarum ſex. erit pro data ratione ſors 100, quæ annuo ſpatio fit 106.

		Logarithmi.	
Termini datæ rationis	100	2,00000,00000	
	106	2,02530,58653	
differentia annua		0,02530,58653	
differentia decennalis		0,25305,86526	
ſortis datæ 100		2,00000,00000	
ſortis auctæ per decennium		2,25305,86526	179°847697
Sors cũ lucro decennali invenitur		179°847697	

Sorte autem ablatâ, relinquitur verus valor annui reditus, ad finem decennij 790847697. incipit autem hoc decennium poſt annos quatuor; cum prima ſolutio fieri debeat ad finem quinquennij. quæritur idcirco ſors, quæ aucta ſecundum datam rationem per annos quatuordecim dabit 790847697.

	Logarithmi.	
valoris annui reditus ad finẽ decennij 79°847697	1,89809,28534	
differentia pro annis quatuordecim auferenda	0,35428,21136	
ſortis quæſitæ Logarithmus reliquus	1,54381,07398	349°926995

Hæc ſors 349°926995 aucta ſecundum datam rationem, per annos quatuordecim continuos, eandem dabit pecuniæ ſummam, quam dat annuus reditus 6 minarum ad decennium.

Eſt igitur hæc ſors iuſtum pretium eiuſdem annui reditus, quo invento per proportionem concludo.

			Logarithmi.
pro-port.	ſors	349°926995	1,54381,07398
	reditus	6	0,77815,12504
	pretiũ	300	2,47712,12547
	reditus	514°590502	1,71146,17653

Tandem inventus eſt reditus annuus quæſitus 514°590502, qui ſolvendus eſt ad finem proximi quinquennij, & continuandus per annos novem ſequentes, ſi 300 minæ pretium eiuſdem repreſententur.

CAPVT XVIII.

Datis trianguli plani lateribus: invenire Aream, Altitudinem, Diametros circulorum inſcripti & circumſcripti, & quemlibet angulum.

ANtequam hanc propoſitionem aggrediar, liceat pauca de Triangulo rectangulo præfari; vt eius ope poſſimus, de veritate & certitudine eorum quæ tradentur rectius iudicare.

Proclus ad quadrageſimam ſeptimam propoſitionem primi libri Euclidis, duos modos tradidit, quibus poſſimus, *dato altero crure circa rectum angulum, invenire crus reliquum & hypotenuſam.* Horum vnus tribuitur Platoni, alter Pythagoræ. eoſdem habemus apud Ramum tanquam conſectaria 5. c. 12. lib. qui ſine diſtinctione numeri paris & imparis, generalius proponi potuiſſent. *Si dimidius numeri pro crure*, &c. Et, *Si quadratus numeri pro crure primo dati*, &c. Ego vero tres tradam generales propoſitiones (ex quarum prima iſti modi fluxerunt) per quas poterimus *dato quolibet latere circa rectum, invenire quotlibet triangula rectangula.* Hæ ſunt huiuſmodi.

Si tres rectæ ſint continue proportionales: erunt trianguli rectanguli

1 *Crura; ſemiſſis differentiæ extremarum, & media; hypotenuſa vero erit ſemiſſis ſummæ extremarum.*

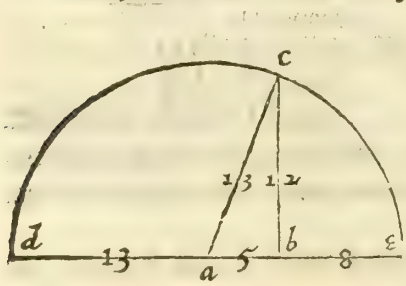
2 *Crura; prima & ſecunda, ſecunda & ſemiſſis tertiæ; hypotenuſa vero prima & ſecunda & ſemiſſis tertiæ.*

3 *Crura; Differentia primæ & ſecundæ, Differentia ſecundæ & ſemiſſis tertiæ; hypotenuſa vero erit Differentia ſecundæ & aggregati è prima & ſemiſſe tertiæ.*

Vt ſunto continue proportionales 8. 12. 18. per primam erunt latera quæſita 5. 12. 13. per ſecundam, 20. 21. 29. & 30. 16. 34. per tertiam 4. 3. 5. & 6. 8. 10.

Continue proportionales 18. 24. 32. triangula rectangula erunt 7. 24. 25. || 42. 40. 58. | 56. 33. 65. || 6. 8. 10. | 8. 15. 17.

Harum prima eſt conſectarium huius ſequentis propoſitionis. In triangulo rectangulo *A BC*: crus vtrumlibet *BC* eſt medium proportionale inter *BD* ſummam, & *B E* differentiam hypotenuſæ *A C*, & reliqui cruris *A B*. & contra.



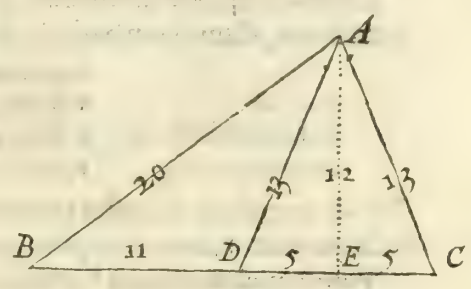
Secunda & tertia demonſtrantur per primam. atque hæc omnia, tam in lineis rectis, quam in numeris, linearum menſuras exprimentibus, oſtendi poterunt facillime. Numeri tres continue proportionales per diviſionem inveniuntur. & per Logar. 3. ax. c. 2. Si numerus quilibet quadratum alterius diviſerit: latus diviſi eſt medium proportionale inter diviſorem & quotum.

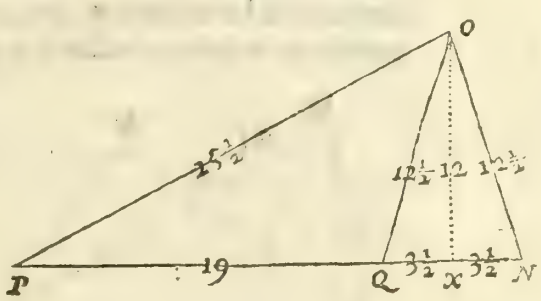
Eſto datum crus anguli recti 12, eius quadratum 144. ſunto diviſores 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. Quoti erunt 72. 48. 36. 288. 24. 20$\frac{4}{7}$. 18. 16. 144. 13$\frac{1}{11}$. vt hic vides *. medius vbiqve eſt 12, extremi ſunt diviſores & quoti. Columna *D* ſunt ſemiſſes ſummarum, columna *S* ſemiſſes differentiarum. hæ columnæ dant nobis 19 triangula rectangula: quorum crus datum eſt 12, reliquum crus habetur in columna *S*, hypotenuſa vero è regione in columna *D*. vt *A* 12. 16. 20. *B* 12. 9. 15. *C* 12. 5. 13. *E* 12. 35. 125.

Et

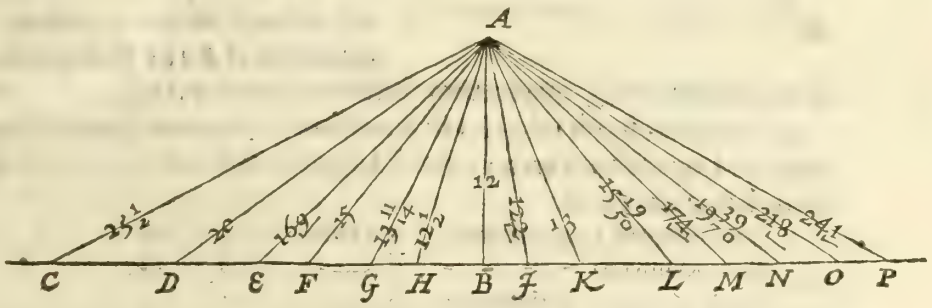
Dividendus 144	DD	SS	D	S
2	72	74	70	37 35
3	48	51	45	25 5 22 5
4	36	40	32	20 16 *A*
5	28 8	33 8	23 8	16 9 11
6	24	30	18	15 9 *B*
7	20 4/7	27 1/7	13 1/7	13 11/14 6 11/14
8	18	26	10	13 5 *C*
9	16	25	7	12 5 3 5 *E*
10	14 4	24 4	4 4	12 2 2 2
11	13 1/11	24 1/11	2 1/11	12 1/22 1 1/22
14	10 1/7	24 2/7	3 5/7	12 1/7 1 6/7
15	9 6	24 6	5 4	12 3 2 7
20	7 2	27 2	12 8	13 6 6 4
25	5 7 6	30 7 6	19 2 4	15 3 8 9 6 2
30	4 8	34 8	25 2	17 4 12 6
35	4 4/35	39 4/35	30 31/35	19 39/70 15 31/70
40	3 6	43 6	43 6	21 8 18 2
45	3 2	48 2	41 8	24 1 20 9
50	2 8 8	52 8 8	47 12	26 4 4 23 5 6
Diuisores.	Quotientes	Summæ extremarum	Differẽ extrem	Hypotenusæ	Crura

Et si duo huiusmodi triangula rectangula ita locentur, vt idẽ sit crus cõmune vtriusque; habebimus triangulum obliquangulum datorum laterum, cuius area erit rationalis. vt *BAE*, *CAE*, constituunt *BAC*, *BAD*; eodem modo *OPX*, *OXN*, dabunt *PON*, *OPQ*.





BC 22 1/2
BD 16
BE 11 9/2
BF 7
BG 6 11/14
BH 3 5/7
BI 2 2/7
BK 5
BL 9 6/2
BM 12 6/7
BN 15 31/70
BO 18 2/7
BP 20 9/2



1. Aream trianguli datorum laterum inveniemus per 9.c. 12.lib. Rami. Si de dimidio collectorum laterum latera figillatim subducantur: latus continue facti è dimidio & reliquis erit area trianguli. Sunto tria latera 20. 11. 13. perimeter, seu latera collecta 44, semiperimeter 22, numeri reliqui subductis lateribus è semiperimetro 2. 11. 9. continue factus provenit ex horum quatuor numerorum multiplicatione. huius autem facti Logarithmus æquatur Logarithmis facientiũ per 2.ax.2.c. sumantur igitur Logarithmi qui semiperimetro & numeris reliquis debentur. horum summa erit Logarithmus continue facti: & semissis summæ erit Logarithmus lateris seu areæ quęsitæ, vt

20, 11, 13 } latera trianguli.
44 perimeter.

		Logarithmi.
semiperimeter	22	1,34242,2681
numeri reliqui	2	0,30102,9995
	11	1,04139,2685
	9	0,95424,2509
Facti		3,63908,7870
Arcæ 66		1,81954,3935

Erit

Erit igitur area dati trianguli 66. Eandem areæ quantitatem inveniemus si altitudinem trianguli *AE* 12 multiplicemus per dimidiatam basim $5\frac{1}{2}$, quia rectangulum è tota basi & altitudine est duplum trianguli per 41. p. 1. lib. Euclid.

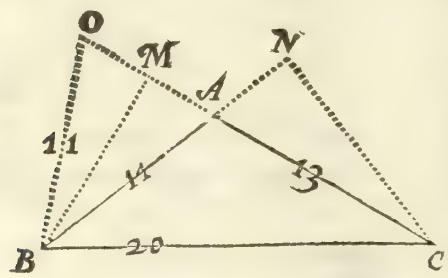
2. Invento areæ Logarithmo, poterimus altitudinem eiusdem trianguli vel perpendicularem ab angulo quolibet in latus oppositum invenire: si è Logarithmo areæ auferatur Logarithmus dimidiati lateris, in quod incidit perpendicularis ab angulo opposito, reliquus erit Logarithmus altitudinis per 2. ax. 2. cap.

Est enim æqualis facto è basi dimidiata in altitudinem, & idcirco areæ Logarithmus, dimidiatæ basis & altitudinis Logarithmis æquabitur.

	Logarithmus.	
areæ 66	1,81954,3935	
dimidiatæ basis $6\frac{1}{2}$	0,81291,3357	
altitudinis $10\frac{2}{13}$	1,00663,0578	10153846 1

Vt ab angulo *B* in basim continuatam, cadat perpendicularis *BM*, eius Logarithmus erit 1,00663,05780, ipsa vero *BM* erit 10153846 proxime. vel $10\frac{2}{13}$.

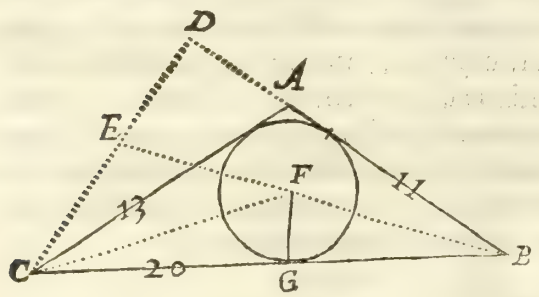
Eandem altitudinem Geometrice inveniemus sic. Sumatur differentia quadratorum è lateribus *BA* *BC*, comprehendentibus angulum *A BC*, à quo perpendicularis cadit in basim *CA* continuatam si opus fuerit vt hic, hanc differentiam 279 dividat basis *CA* 13, quotus $21\frac{6}{13}$ erit *CO*, summa segmentorum basis ab angulis *O*, *C*, vel *A*, *C*, ad punctum *M*. in quod incidit perpendicularis: ab hac summa *CO*, auferatur data basis *CA* 13 quæ est differentia segmentorum, restabit *AO* $8\frac{6}{13}$ dupla minoris segmenti *AM* $4\frac{3}{13}$: deinde ablato quadrato *AM*. $17\frac{152}{169}$ è quadrato *AB* 121 (vel quad. *CM*. è quad. *CB*) restabit $103\frac{17}{169}$ quadratum rectæ *BM* quæsitæ, $10\frac{2}{13}$.



3. Radius circuli inscripti sic invenitur. Auferatur Logarithmus semiperimetri, è Logarithmo areæ; restabit Logarithmus radij quæsiti. vt in triangulo cuius latera 20. 13. 11.

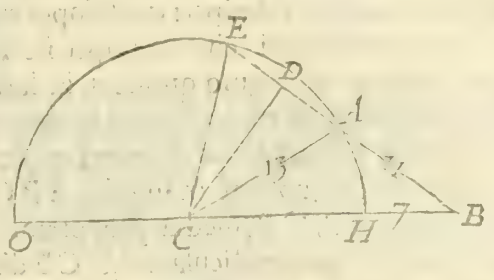
areæ inventæ Logarithmus	1,81954,39355	66
semiperimetri - - - - -	1,34242,26808	22
radij circuli trianguli inscripti	0,47712,12547	3

Aio radium inscripti circuli *FG* esse 3. Est enim factus à radio in semiperimetrum æqualis areæ trianguli dati. quia ductis rectis à centro *F* ad angulos *ACB*, secabitur datum triangulum, in tria triangula: quorum altitudines æquantur radio circuli, bases autem sunt latera dati trianguli. & communis altitudo *FG* ducta in semisses singulorum laterum, id est in semiperimetrum, dabit areas triangulorum componentium *AFC*, *AFB*, *AFC*. id est aream dati trianguli.



Geometrice, radium sic inveniemus. ducatur recta CD perpendicularis lateri opposito *BA*. & quærantur *BD*, 16. & CD, 12. deinde ducatur *BFE* bisecans angulum *CBD*. centrum *F* erit in bisecante. per 4. p. 4. lib. Eucl. tertio, quæ-

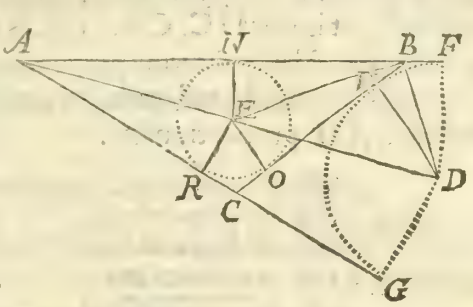
quęrenda eſt *D E*, quæ per 3.p. 6.lib. Eucl. ita ſe habet ad E C, vt *D B* ad B C. & idcirco vt ſumma laterum C B, *B D* 36, ad *B D* 16; ſic tota C D 12, ad *E D* 5⅓. Quarto, quęritur recta *B P*, ab angulo *B*, ad punctum contactus *P*; in quod cadit radius *F P*, perpendicularis lateri *B A*. eſt autem *B P* 9. nam in omnibus triangulis, ſi latus quodlibet A C 13 auferatur è ſemiperimetro 22, reſtabit 9 diſtantia anguli oppoſiti *B* à punctis contactuum *G P*. Tandem per proportionis regulam quęro *P F*. vt *B D* 16, ad *D E* 5⅓: ſic *B P* 9 ad *P F* 3.



Poterimus autem invenire *A D*, vel per ea quæ præceſſerunt in ſecunda huius Capitis ſectione, vel non minus commode ad hunc modum. Centro *C* radio *C A* deſcribatur peripheria *O E A H*, & per 37.p. 3.lib. & 16.p. 6.lib. Eucl. erunt *A B* 11. *B H* 7. *B O* 33. *B E* 21 proportionales. & ablata *B A* 11 erit *A E* 10 & *A D* 5.

Poterit etiam radius inſcripti circuli inveniri per Logarithmos, ſic. Ablatis lateribus datis è ſemiperimetro, ſumantur Logarithmi reliquorum; & è ſumma auferatur Logarithmus ſemiperimetri: ſemiſſis reliqui erit Logarithmus radij quęſiti.

Hoc ita ſe habere ad hunc modum demonſtrare poterimus. Fiat *A B C* triangulum datorum laterum *A B*, 20. *B C*, 11. *A C*, 13. & producantur *A B*, *A C* ad *F* & *G*, ita vt *A F* ſit 22 æqualis ſemiperimetro & æqualis rectæ *A G*, & fiant anguli *A F D*, *A G D* recti; & centro *D* radio *D F* deſcribatur peripheria *G V F* tangens latera *A B*, *A C* producta in *F* & *G*. Eadem peripheria neceſſario continget rectam *C B* in puncto *V*: cum *C V*, *V B* æquentur ex fabrica rectis *C G*, *B F*. (nam *C B* ſi ſecet peripheriam *G V F* erit maior quam *C G*, *B F*: quod ſi non pertingat ad peripheriam erit minor quam *C G*, *B F*.) Deinde centro *E*, inſcribatur dato triangulo circulus *N O R*. eruntq; *A N*, *A R*, 11. *B N*, *B O*, 9. *C O*, *C R*, *B V*, *B F* 2. Et *E N B*, *B F D* ſimilia triangula. quia anguli ad *N* & *F* recti, & *N B O*, *O B F* æquales duobus rectis per 13.p. 1.lib. Eucl. & *N B E*, *F B D* ſi nul ſumpti valent dimidium duorum rectorum: & idcirco *F B D*, *N E C*, item *N B E*, *F D B* æquantur. Sunt igitur *E N*, *N B*: *B F*, *F D* proportionales & rectangula *E N* in *F D*, & *N B* in *B F* æqualia. Sunt autem *F A*, *N A*: *D F*, *E N* proportionales. & vt *D F* ad *E N*, ſic rectangulum *D F*, *E N*, ad Quadratum *E N*. & idcirco vt *F A* ad *N A*, ſic rectangulum *E N*, *F D* (vel ei æquale *N B*, *B F*) ad Quadratum *E N*.

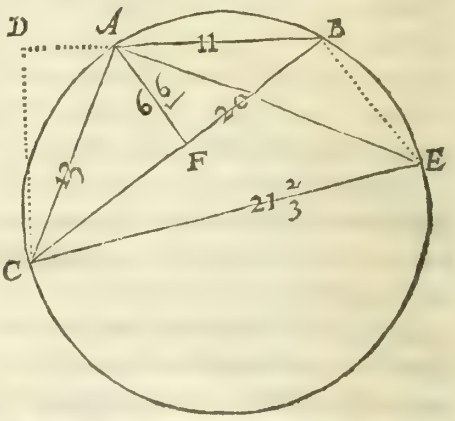


Idcirco ſi Logarithmus *F A* 22 auferatur è Logarithmis *N A* 11 & rectanguli N B, B F; reſtabit Logarithmus quadrati E N: cuius ſemiſſis erit Logarithmus radij EN. Idem eveniet ſi ſumatur primi Logarithmi complementum &c. vt cap. 15. oſtendimus.

			Logarithmi.
	A F - - - - - - - - 22	compl. Arithm.	86575773191
	A N - - - - - - - - 11		10413926851
proport.	Oblongum 18 { *N B* 9		09542425094
	{ *B F* 2		03010299957
	Quadratum *E N* 9		19542425093
	E N 3		04771212546

Hinc manifeſtum eſt, 198 continue factum à reliquis 11.9.2 æquari facto à ſemiperimetro 22 in quadratum radij E N 9. per 19.p.7.l.Eucl. & ſi ſemiperimeter 22 hos æquales factos multiplicet, erit 4356 continue factus ab AF, AN, N B, B F, æqualis continue facto ab A F, A F, E N, E N, vel facto à quadrato A F in quadratum E N. & ſi quadratus quadratum multiplicet factus erit quadratus: & latus facti erit factus à lateribus eorundem quadratorum. & idcirco 66 latus continue facti à ſemiperimetro & reliquis, erit factus à ſemiperimetro in radium circuli inſcripti: qui ſemper æquatur areæ trianguli.

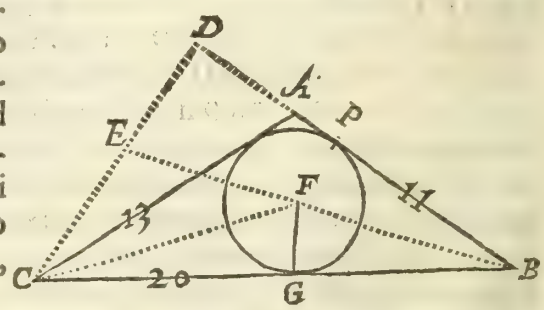
4 Diameter circuli circumſcripti ſic habetur. Auferatur Logarithmus perpendicularis ab angulo quolibet in latus oppoſitum, è Logarithmis laterum eundem angulum comprehendentium, reliquus erit Logarithmus diametri quæſiti. Sunt enim in quolibet triangulo A B C; duo latera AC, C B, media proportionalia, inter C D perpendicularem, & C E diametrum circuli circumſcripti. Quia anguli D A C B E C æquantur per 22.p. 3.lib. & 14 p.1.lib.Eucl. & anguli C D B, C B E recti. & idcirco D C A, B C E reliqui æquales: & triangula D C A, B C E ſimilia. erunt igitur D C, C A : B C, C E proportionales. Vel ſi interior perpendicularis magis commoda videatur, erunt F A, AB : AC, C E proportionales.



prop.	*CD.* 12	complem.Logarithmi	89208187539	
	CA. 13	Logarithmus	11139433523	
	CB. 20	Logarithmus	13010299957	
21^{666666}	*CE.* 216666666666		11|33579 21019	ſumma omnium.

CE. diameter $21\frac{2}{3}$. vide paginam 37. de compl.arith.

5 Si angulum quemlibet ſcire velimus. auferatur latus eidem oppoſitum è ſemiperimetro: reliquum erit ſegmentum alterutrius cruris inter angulum eundem & punctum in quo peripheria circuli inſcripti tangit latus. Erit autem hoc ſegmentum ad radium circuli inſcripti, vt radius circuli ad tangentem ſemiſſis anguli quæſiti. vt in triangulo ABC: ablato latere C A 13 è ſemiperimetro 22, reſtabit B G vel B P 9. aio



				Logarithm.	
pro-	*BG*	9	compl.arith.	904575749	
port.	*GF*	3		04771212 5	
	Radius	10000000000.		10000000000	
	Tangens *GBF*	3333333333.		1|952287874	18:26:06

Erit igitur angulus G B F 18:26:06. & totus angulus G B A 36:52:12. Eodem modo inveniri poterunt reliqui anguli ad C & A.

				Logarithm.	
pro-	*CG*	11	compl.arith.	8958607314	
port.	*GF*	3		0477121255	
	Radius	10000000000.		10000000000	
	Tangens *GCF*	2727272727.		1|9435728569	15:15:18

AP

			Logarithmi.	
AP	2	compl.arith.	9698970004	
PF	3		0477121255	
Radius	10000000000.		10000000000	
Tangens *PAF*	15000000000.		20176091259	56:18:36

Anguli	*ACB*	30:30:36
	CAB	112:37:12
	CBA	36:52:12
		180:00:00

Poterimus etiam angulum quemlibet aliter invenire, per altitudinem trianguli inventam, per 2. sect. huius Cap. id est per perpendicularem ab angulo quolibet in latus oppositum. Nam vt crus commune anguli verticalis & anguli quæsiti, ad perpendicularem ab eodem angulo verticali; sic sinus totus ad sinum anguli quæsiti. Vt in eodem triangulo, si quæratur angulus *CBA*: erunt

			Logarithmi.	
pro-	*CB* crus commune 20	compl.arith.	8698970004	
port.	*CD* perpēdicularis 12		10791812460	
	Sinus Totus 10000000000		10000000000	
	Sinus *CBA* 6000000000		19778151250	36:52:12

Vel, vt B D basis continuata, ad D C altitudinem: sic radius circuli, ad Tangentem anguli quæsiti D B C.

			Logarithmi.	
pro-	*BD* 16	compl.arithm.	8795880173	
port.	*CD* 12		10791812460	
	Radius 10000000000.		10000000000	
	Tangens *DBC* 7500000000.		19875061263 3	36:52:12

Vel, vt B D basis continuata, ad latus B C: sic radius circuli, ad secantem anguli quæsiti D B C.

			Logarithmi.	
pro-	*BD* 16	compl.arithm.	8795880173	
port.	*BC* 20		13010299957	
	Radius 10000000000.		10000000000	
	Secans *DBC* 12500000000.		20969100130	36:52:12

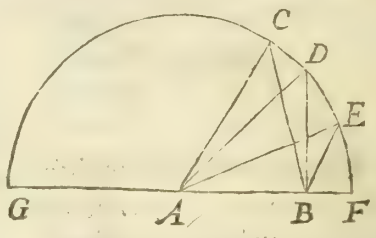
Vel, vt *CE* diameter circuli circumscripti ad *CA* latus quæsito angulo oppositum: sic radius circuli, ad sinum anguli quæsiti.

			Logarithmi.	
	CE diameter 21⅔	compl.arithm.	8664207898o	
pro-	*CA* 13		11139433523	
port.	Radius 10000000000.		10000000000	
	Sinus *ABC* 6000000000.		19778151250 3	36:52:12

Cum autem idem sit sinus anguli cuiuscunque & complementi ad duos rectos, vt 63: 0, & 117:0, vt certius scire possimus sitne angulus quæsitus acutus an obtusus: notandum, duos angulos cuiuslibet trianguli, duobus minoribus lateribus oppositos semper esse acutos: tertium autem angulum, quem maximum latus subtendit, posse quandoque esse acutum, quandoque vero rectum vel obtusum. Vt igitur scire possimus, qualis sit angulus qui maximo lateri opponitur, sumantur summa & differentia maximi lateris & medij (vel minimi) earum q. Logarithmi: & si horum semissis æquetur Logarithmo tertij lateris, angulus maximo lateri oppositus est rectus. sin Logarithmus tertij lateris fuerit maior semisse, angulus erit acutus: sin minor, obtusus. vt in triangulis CAB, DAB, EAB, *sint latera* CA, DA, EA, *æqualia, partium* 10, AB, 8: BC, 7: BD, 6: BE, 5. *erit* GB *summa laterum angulorum ad* A, 18: BF *differentia eorundem laterum* 2, *semissis summæ Logarithmorum* 07781 5125 *æqualis Logarithmo lateris* BD, *& idcirco* BD *est per Cap.* 17. *media proportionalis in-*

ter AB *&* BF, *& angulus* ABD *rectus. per* 13. *p.6.l.Eucl. est autem Logarithmus rectæ* CB, *maior semisse summæ Logarithmorum; &* ABC *acutus. at* ABE *est obtusus, & Logarithmus rectæ* BE *minor eodem semisse.*

		Logarithmi.
summa laterum *GB*	18	125527251
differētia laterū *BF*	2	030102999
summa Logarithmorum		155630250
semissis		077815125
BC	7	084509804
BD	6	077815125
BE	5	069897000



*Sinus illi & Tangentes Secantesq́, quorum ope anguli inveniuntur, quærendi sunt in Opere Palatino, vel alio quolibet Canone Triangulorum. vel si ipsis Logarithmis contenti simus, Canon Triangulorum à M.*Edm.Guntero *nuper editus nobis abunde satisfaciet, vel ille quem paratum habeo, & aliquando me in lucem daturum spero, vtroq; modo idem præstabit. siue per ipsos Sinus & Tangentes, siue per eorum Logarithmos. Cum autem sinus Totus undecim notis scribi intelligitur, eius Logarithmus loco characteristicæ habebit* 10, *vt Capite* 4 *ostendimus. Sic reliqui sinus usque ad sinum gr.*5. 45 m. *& Tangentes à gradibus* 45. 0, *ad* 5.43, *habent* 9 *pro characteristica. infra vero usque ad* 0.35, *eorum characteristica est* 8. *Secantium autem usque ad* 84.16, *& Tangentium à grad.*45.0 *ad* 84.18, *characteristica est* 10. *atque ultra hos terminos, fere usque ad finem Quadrantis,* 11.

Caput. XV.

In triangulo rectangulo, Datis

1 *Crure & Hypotenusa,*
2 *Crure & summa vel differentia Hypotenusæ & reliqui cruris,*
3 *Duobus cruribus,*
4 *Crure & Area,*
5 *Area & summa vel differentia crurum,*
6 *Hypotenusa & summa vel differentia crurum,*
7 *Hypotenusa & Area,*
8 *Perimetro & Area,*

} *quæruntur reliqua.*

1 *Datis crure & Hypotenusa, quæritur crus reliquum.*

Sumantur summa & differentia Hypotenusæ & dati cruris, & earum Logarithmi: semissis summæ Logarithmorum erit Logarithmus cruris quæsiti.

				Logarithmi.
vt sunto	crus alterum 5	summa	18	125527251
	hypotenusa 13	differētia	8	090308999
		summa		215836250
crus quæsitum 12		½ summæ		107918125

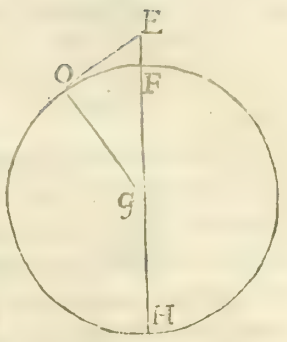
Est enim crus quæsitum medium proportionale inter summam & differentiam Hypotenusæ & dati cruris, vt ostenditur per primum diagramma Capitis 18. & idcirco Logarithmus medij quæsiti est semissis summæ datorum Logarithmorum. per cap. 17.

Hinc licebit, Datis *CE* diametro Terræ, & *AC* altitudine oculi supra mare: invenire rectam *AB*, vel distantiam oculi à puncto contactus.

Sit *FH* milliarium 6873. *EF* 2.

erunt

		Logarithmi.	
erunt *HE*	6875	383727270	
EF	2	030102999	
	summa	413830269	
	½ summæ	206915134	ab 117$\frac{25}{}$



2

2 *Datis crure & summa vel differentia Hypotenusæ & reliqui cruris: quæruntur crus reliquum & Hypotenusa.*

Logarithmus dati cruris duplicatus, æquatur Logarithmis summæ & differentiæ Hypotenusæ & reliqui cruris. ablato igitur harum alterius Logarithmo, è duplicato dati cruris Logarithmo, reſtabit reliquæ Logarithmus, & inventarum ſummæ & differentiæ ſemiſſis erit Hypotenuſa: differentiæ autem earundem ſemiſſis erit crus reliquum.

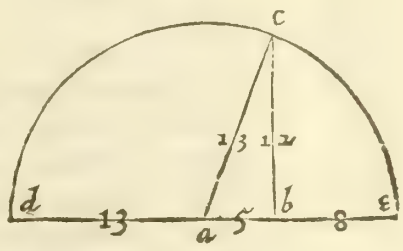
Vt ſi datum ſit crus *AB* 12 & ſumma Hypotenuſæ & reliqui cruris *DB* 18, primo quærenda eſt *BE* differentia eorundem. Deinde *AE* vel *AC* ſemiſſis ſummæ extremarum erit Hypotenuſa, & *AB* ſemiſſis differentiæ earundem erit crus reliquum.

	Logarithmi.
D B ſumma Hypotenuſæ & reliqui cruris 18	125527251
B C dati cruris 12 Logarithmus duplicatus	215836250
B E differentia Hypotenuſæ & reliqui cruris 8	090308999

BD, 18. BC, 12. BE, 8. continue proportionales

8
18

Extremarū	ſumma 26	13. ½ ſummæ. Hypotenuſa.
	differē. 10	5. ½ differētiæ. Crus reliquum.



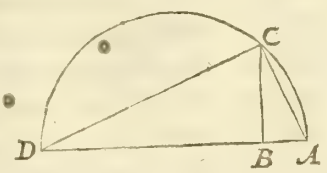
3

3 *Datis duobus cruribus, quæritur Hypotenusa.*

Primo quęratur tertium proportionale. per 11.p.6.lib.Eucl.

Deinde inter primum & ſummam primi & tertij, quęratur medium proportionale: medium illud æquabitur Hypotenuſæ quęſitæ. per 31.p.6.l.Eucl.

Vt ſunto data duo crura A B, 8. B C, 15. tertium proportionale erit DB 28 $\frac{1}{8}$.



		Logarithmi.
A B. 8		090308999
B C. 15 eius Logarith. duplicatus		235218252
B D. 28 $\frac{1}{8}$		144909253
D A. ſumma primi & tertij	36 $\frac{1}{8}$	155780785
A B. primum	8	090308999
Logarithmorum ſumma		246089784
½ ſummæ		123044892

17. Hypotenuſa.

AD, 36 $\frac{1}{8}$. *AC*, 17. *AB*, 8. ſunt continue proportionales. & *ABC* triangulum rectangulum. Eandem Hypotenuſam inveniremus, ſi recta *CB* 15, fiat prima proportionalium, & *BA* 8 ſecunda. tertia erit 4 $\frac{17}{128}$. Deinde inter ſummam primæ & tertiæ 19 $\frac{4}{128}$, & *CB* 15 primam, media erit *AC* 17.

De Logarithmis partium, & numerorum integrorum quibus partes ſunt adiunctæ, vide Cap. 10.

4

4 *Datis Crure & Area: quæruntur crus reliquum & Hypotenusa.*

Area trianguli eſt ſemiſſis rectanguli comprehenſi à cruribus. per 41.p.1.l. Eucl. Si igitur datum crus aream duplicatam diviſerit, quotus erit crus reliquum. & per præcedentem ſectionem, datis duobus cruribus invenitur Hypotenuſa.

Vt ſunto datum crus 7, area 84. quęritur crus reliquum.

			Logarithmi.	
pro-port.	Diuisor	7	084509804	
	Vnitas	1	000000000	
	Diuidendus	168	222530928	
	Quotus	24	138021124	crus quæsitum 24

5 *Datis Area & summa vel differentia crurum invenire crura.*

Oblongum à cruribus comprehensum (cui per 41.p.1.lib.Eucl. æquatur area duplicata) vnà cum quadrato semissis differentiæ crurum, æquatur quadrato semissis summæ crurum. per 5.p.2.lib.Eucl.

Idcirco si datæ areæ duplicatæ addatur quadratum semissis differentiæ crurum, totum erit quadratum semissis summæ eorundem.

Sin è quadrato semissis summæ crurum auferatur area duplicata, restabit quadratum semissis differentiæ eorundem.

Vt sunto, Area 60, summa crurum 23. quadratum semissis summæ $132\frac{1}{4}$, à quo auferatur 120 area duplicata, restabit $12\frac{1}{4}$: cuius latus $3\frac{1}{2}$, est semissis differentiæ crurum eruntque crura 15. 8.

$11\frac{1}{2}$ semissis summæ crurum,
$3\frac{1}{2}$ semissis differentiæ crurum,

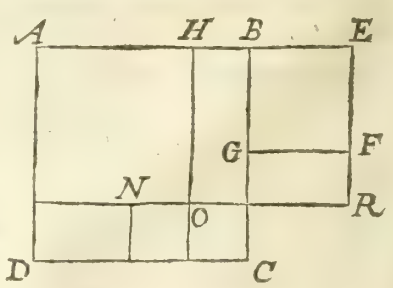
15, 8 } crura.

6 *Datis Hypotenusa & summa vel differentia crurum: quæruntur crura.*

Quadratum Hypotenusæ æquatur quadratis crurum per 47.p.1.lib.Eucl. Data idcirco duorum quadratorum summâ, vnà cum summâ vel differentiâ laterum; quęruntur latera.

Si data fuerit laterum summa: *auferatur quadratum semissis summæ laterum, è semisse summæ quadratorum; reliquum erit quadratum semissis differentiæ laterũ*, vt sit Hypotenusa 26 summa crurum 34 erit summa quadratorum è cruribus 676. semissis summæ crurum 17, eius quadratum 289: quo ablato è semisse summæ quadratorum 338, restabit 49, cuius latus 7 est semissis differentiæ crurum. erunt igitur crura 24. 10.

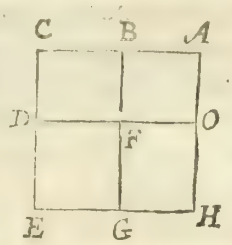
Sin data fuerit laterum differentia: *quadratum semissis differentiæ, ablatum è semisse summæ quadratorum, relinquit quadratum semissis summæ laterum.* Vt in eodem exemplo semissis differentiæ laterum 7, eius quadratum 49, ablatum è semisse quadratorum 338; relinquit 289, quadratum semissis summæ laterum 17. erunt igitur crura quęsita, vt antea 24 & 10. quæ ita poterunt demonstrari. Sunto AB 9, BE 5, eorum quadrata AC 81, EG 25. quadratorum summa erit 106. Semissis summæ laterum erit HE 7, cuius quadratum HR 49, quod duplicatum est AR 98. Semissis differentiæ laterum est HB 2, cuius quadratum duplicatum est NC 8. Cum autem GR oblongum 10, quod includitur in oblongo AR, æquatur oblongo DN, quod excluditur: manifestum est NC, duplicatum quadratum rectæ HB, esse differentiam datorum quadratorum 106, supra AR 98 duplicatum quadratum rectæ EH. idcirco quadratum HR 49. & quadratum OC 4. æquantur semissi summæ datorum quadratorum 53.



7 *Datis Hypotenusa & Area quæruntur crura.*

Area duplicata æquatur oblongo à cruribus comprehenso, per 41. p. 1. lib. Eucl. & Quadratum Hypotenusæ æquatur quadratis crurum. per 47. p. 1. lib. Eucl. Dantur igitur Summa quadratorum & Oblongum à cruribus comprehensum. At huiusmodi oblonga duo, cum quadrato differentiæ laterum, æquantur summæ

mæ quadratorum, per 7.p.2.lib.Eucl. Idcirco si è quadrato Hypotenusæ auferatur quadruplum Areæ; restabit quadratum differentiæ crurum. & per precedentem sectionem *data Hypotenusa & differentia crurum, inveniuntur crura.*

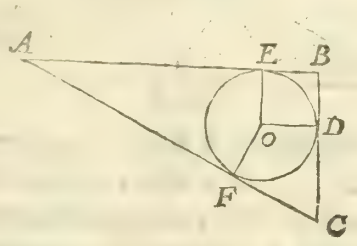


Vt sit Hypotenusa 13. Area 30. oblongum à cruribus comprehensum sit *AD* vel *BH* 60, & sint crura *AC*, *AB*. Summa quadratorum erit 169. Huic summæ æquantur oblonga duo *AD*, *BH*, cum quadrato rectæ *BC* differentiæ laterum *AC*, *AB*. Auferantur *AD*, *BH* 120, è summa quadratorum *AE*, *OB* 169: restabit quadratum *GD*, 49. cuius latus *BC* 7, est differentia laterum.

8 *Datis Perimetro & Area invenire latera.* 8

Area trianguli æquatur facto à semiperimetro ducta in radium circuli inscripti: vt ostendi 3 sectione Cap. 18.

Et in triangulo rectangulo, *diameter inscripti circuli, æquatur differentiæ Hypotenusæ & summæ crurum.* vt in triangulo *ABC*, *EB*, *DB* æquantur radijs *EO*, *OD*. Idcirco si semiperimeter diviserit Areã, quotus erit semidiameter *OE*. & ablatis, *EB*, *BD* diametro æqualibus è tota perimetro, semissis reliqui erit *AFC* Hypotenusa, vel *AE*, *DC*. Dantur igitur Hypotenusa, & summa crurum: & per 6 sectionem inveniuntur crura.



Vt esto Trianguli rectanguli *ABC* perimeter 60, & Area 120: si semiperimeter aream diviserit, quotus erit *EO* 4, radius inscripti circuli. & ablatis 8 è perimetro 60, restabunt 52. cuius semissis 26 est Hypotenusa *AC*. & summa crurum *AB*, *BC* erit 34.

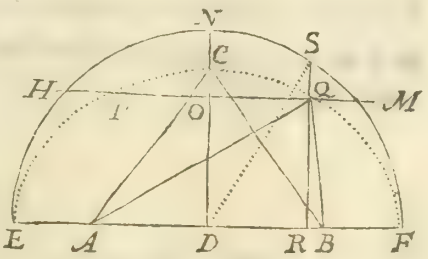
Caput. XX.

Super datam Basim triangulum describere æquale & isoperimetrum dato triangulo.

SIt data basis, super quam describendum est triangulum, minor maximo latere dati trianguli, maior autem minimo.

Sunto latera dati trianguli 26. 25½. 12½. cuius basis sit 26, erit altitudo 12: perimeter 64. Huic aliud æquale & isoperimetrum constituendum est super datam basim *AB* 24. cuius altitudo debet esse 13. quia in triangulis æqualibus, altitudines sunt basibus reciproce proportionales. per 15.p.6.lib.Eucl.

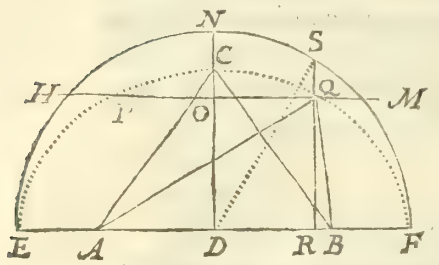
			Logarithmi.
	24	compl.arith.	861978876
pro-	26		141497335
port.	12		107918125
	13		1	111394336



Deinde ducatur *ND* perpendicularis basi *AB*, & fiat *DO* æqualis inventæ altitudini 13, & per punctum *O* ducatur *HOM* parallela basi *AB*. in hac parallela

lela ſitus erit vertex trianguli quæſiti. Cum autem hoc triangulum debeat eſſe iſoperimetrum dato triangulo: ablata *AB* baſi 24, è data perimetro 64, reſtabunt 40 ſumma reliquorum laterum. fiat *ABC* triangulum iſoſceles, cuius vtrumque crus *AC*, *BC* ſit 20. & biſecta baſi in *D*, centro *D*, radio *DE* 20, deſcribatur peripheria circularis *ENF*, & peripheria Lileiptica *ECF*, interſecans rectam *HOM* in punctis *PQ*. Aio ductis rectis *AP*, *BP*, vel *AQ*, *BQ*: triangula *APB* vel *AQB* eſſe æqualia & iſoperimetra dato triangulo. Nam in Ellipſi, ſi *AC*, *BC*, *DE*, *DF*, æquentur: rectæ duæ ab eodem peripheriæ Ellipticæ puncto, ductæ ad *A* & *B* ſimul ſumptæ, æquantur diametro longiori *EF*. per 52.p.3.lib. Apollonij Pergæi de conicis ſectionibus.

Quod ſi in numeris ſcire velimus longitudines rectarum *AQ*, *BQ*: à puncto *Q* ducatur perpendicularis *QR*, ſecans peripheriam circuli in puncto *S*; & fiant *DC*, *DN*: *RQ*, *RS*, proportionales; & ablato quadrato *RS*, è quadrato *DS*, reſtabit quadratum, rectæ *DR*. per 47.p.1.lib. Eucl. eritque *AR* aggregatum rectarum *AD*, *DR*; & *BR* erit differentia earundem.



			Logarithmi.
	Quadratum *DC*	256 compl.ar.	759176003
pro-	Quadratum *DN*	400	260205999
port.	Quadratum *RQ*	169	222788670
	Quadratum *RS*	$264\frac{15}{16}$	1|242170672

Quadrata *RS* & *DR*, æquantur quadrato *DS* (vel *DN*) eſt igitur quadratum *DR* $135\frac{15}{16}$. & *AR* erit $12+l.135\frac{15}{16}$. *BR* vero erit $12-l.135\frac{15}{16}$. Quæ ſi ſeipſas multiplicent, earũ quadrata erunt $2799375+l\,78300$: & $2799375-l\,78300$. quibus ſi addatur 169 quadratum rectæ *RQ*, erit quadratum rectæ *AQ*: $4489375+l.78300$, & quadratum rectæ *BQ*, erit $4489375-l.78300$. & ſi hęc quadrata Binomia reducantur ad numeros abſolutos, erit quadratum *AQ*, 7287588715, & quadratum *BQ* 1691161285. quæ omnia particularius hic adiecta vides.

Latus quadrati 78300 eſt 279 8213715
2799375
Quadratum rectæ *RA* 5597588715 totum
Quadratum rectæ *RQ* 169
Quadratum rectæ *AQ* 7287588715. *AQ*. 26995534

Latus quadrati 78300 eſt 279 8213715
2799375
Quadratum rectæ *BR* 1161285 reliquum
Quadratum rectæ *RQ* 169
Quadratum rectæ *BQ* 1691161285. *BQ*. 13004465

AB 24
BQ 13004465
AQ 26995534
Erit igitur perimeter trianguli *ABQ* 63999999

& Area 156, æquabitur facto à baſi *AB* 24 in 6½ ſemiſſem altitudinis *RQ*. Quæ erant facienda.

CAPVT.

CAPVT XXI.

Dato triangulo peripheriam describere, cuius quodlibet punctum distet ab angulis dati trianguli, secundum datas quascunque possibiles rationes. Et data basi trianguli, vnà cum Area & ratione crurum; invenire crura.

VT hæc commodius ostendantur, sunt mihi Lemmata duo prius demonstranda.

Lemma primum.

Si quotlibet numeri sint continue proportionales: tam summæ quam differentiæ eorundem, proximæ, vel æque remotæ: sunt continue proportionales in eadem ratione. vt hic vides.

			1			
			A			
		3		2		Differentiæ quartæ.
		B		*C*		
	9		6		4	Differentiæ tertiæ.
	D		*E*		*F*	
27		18		12		8 Differentiæ secundæ.
G		*H*		*O*		*K*
81	54		36	24		16 Differē. primæ.
L	*M*		*N*	*P*		*Q*
243	162	108		72	48	32
R	*S*	*T*		*V*	*X*	*Y*

Continue Proportionales cum differentijs eorundem.

Continue Proportionales cum aggregatis eorundem.

243	162	108		72	48	32
Y	*X*	*V*		*T*	*S*	*R*
405	270		180	120		80 Summæ primæ.
Q	*P*		*N*	*M*		*L*
675	450		300		200	Summæ secundæ.
K	*O*		*H*		*G*	
1125		750		500		Summæ tertiæ.
F		*E*		*D*		
	1875		1250			Summæ quartæ.
	C		*B*			
		3125				
		A				

In his vtrisque, Quicunque sunt similiter siti, sunt proportionales. vt *B*, *F*: *D*, *O*. *A*, *H*: *F*, *V*. & qui in eadem rectà eandem servant distantiam, sunt continue proportionales. vt *B*, *H*, *T*. *D*, *O*, *Q*.

Hæc omnia demonstrantur per 19.p.5.lib.Eucl. & per generale illud axioma. Si proportionalia proportionalibus addantur vel auferantur; tota vel reliqua sunt proportionalia.

Consectarium.

Hinc licebit, Datis duabus differentijs trium continue proportionalium; ipsos proportionales invenire. vt sunto tres continue proportionales ignoti, *H O K*, & sint datæ *E*, 6. *F* 4 differentiæ eorundem: sumatur *C* 2 differentia

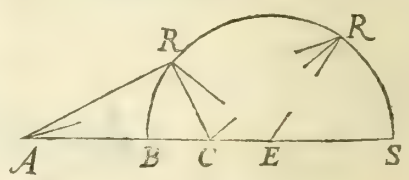
datarum. & fiant C, F, K, vel C, E, H, continue proportionales, per 11.p. 6.lib. Eucl. erunt K vel H noti, & $K+F$ vel $H-E$ erit O medius.

Secundum Lemma.

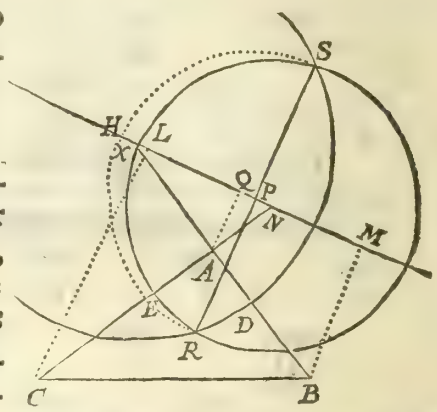
Si tres rectæ EC, EB, EA, ſint continne proportionales, & centro E radio
2 EB deſcribatur peripheria BRS, & à puncto quolibet R in peripheria ducantur rectæ RC, RA: erunt AB, BC: AR, RC proportionales. Sunt enim EA, ER, EC proportionales ex theſi & 15.d.1.lib.Eucl. & idcirco, triangula AER, REC æquiangula per 6.p. 6. lib. Eucl. & ſimilia per 4.p. 6.lib. Eucl. eruntque latera $AE, AR : ER, RC$ proportionalia: & alterne AE, ER: AR, RC. Sunt autem per precedens Lemma, vt AE ad ER vel EB, ſic differentiæ AB ad BC. Sunt igitur AB, BC: AR, RC proportionales. Vide Problema Apollonij apud Eutoeium in commentario in præfationem libri primi Apol. Pergæi de conicis ſectionibus.

Si ab aliquo puncto H *intra peripheriam* B R S, *vel extra; ducantur duæ rectæ ad puncta* A C, *erit* H C *intra peripheriam minor, extra vero maior quam pro data ratione.*

Conſectarium.



Si diametro BS manente, circumagatur ſemiperipheria BRS, motu hoc deſcribetur ſuperficies ſphærica per 14. d. 11. lib. Eucl. In hac ſuperficie nullum eſt punctum, quod non fuit deſcriptum ab aliquo puncto in ſemiperipheria BRS: & idcirco ſi ab aliquo puncto M in hac ſuperficie ſphærica, ducantur duæ rectæ ad puncta AC, erunt AM, MC proportionales rectis AB, BC.



His demonſtratis, eſto datum triangulum ABC laterum 6. 8. 10, & quærantur duo puncta RS eo ſitu poſita, vt RA, RB, RC: item SA, SB, SC ſint proportionales numeris 2,3,4. Secetur latus quodlibet AB in puncto D, ſecundum rationem conterminarum rectarum RA, RB: & per Conſectarium primi Lemmatis, fiant AX, DX, BX continue proportionales: & centro X radio XD, deſcribatur peripheria RDS. Deinde ſecetur AC (vel BC) ſimiliter in E, vt AE, EC ſint proportionales rectis RA, RC, & inveniatur punctum N, fiantque AN, EN, CN continue proportionales. & centro N radio NE deſcribatur peripheria ERS, interſecans peripheriam prius deſcriptam in punctis RS: aio, rectas RA, RB, RC: item SA, SB, SC eſſe proportionales numeris 2,3,4. Sunt enim RA, RC per ſecundum Lemma proportionales rectis AE, EC, id eſt ex fabrica numeris 2.4. eâdem de cauſa RA, RB, erunt proportionales rectis AD, DB. id eſt numeris 2.3.

Si peripheria E R S *non interſecet reliquam, impoſſibile eſt vt ea ſerventur rationes rectarum* R A, R B, R C *quæ imperantur. quod evenire deprehendemus, ſi rectas* R A, R B, R C *habere velimus proportionales numeris* 1,4,2.

	$1\frac{1}{3}$			$2\frac{2}{3}$			$1\frac{1}{7}$	
$3\frac{1}{3}$		$2\frac{2}{3}$	$5\frac{1}{3}$		$2\frac{2}{3}$	$5\frac{5}{7}$		$4\frac{2}{3}$
DB		AD	EC		AE	GC		BG
$10\frac{4}{7}$	$7\frac{1}{7}$	$4\frac{4}{7}$	$10\frac{1}{7}$	$5\frac{1}{7}$	$2\frac{1}{7}$	$22\frac{6}{7}$	$17\frac{1}{7}$	$12\frac{6}{7}$
XB	XD	XA	NC	NE	NA	CO	GO	BO

Quod ſi recta CB ſecetur in puncto G, vt BG ſit ad GC, vt 3 ad 4 continuanda erit CB vſque ad O. vt OB $12\frac{6}{7}$. OG, $17\frac{1}{7}$. OC, $22\frac{6}{7}$, ſint continue proportionales.

tionales. & centro *O*, radio *O G*, descripta tertia peripheria, transibit etiam per puncta eadem *RS*. Suntque harum trium peripheriarum centra *X N O*, in eadem recta.

Et, si manentibus diametris, harum semiperipheriarum duæ circumagantur: superficierum sphæricarum eo motu descriptarum communis intersectio erit peripheria, cuius diameter erit recta *RS*: eiusque planum erit perpendiculare plano trianguli *A B C*. Et si ab huius peripheriæ puncto quolibet, ducantur tres rectæ ad puncta *A B C*, erunt hæ rectæ proportionales numeri, 2.3.4. per secundi Lemmatis consectarium. Vide vltimum problema, in appendicula Francisci Vietæ ad finem Apollonij Galli.

Si quis forte præter demonstrationem Geometricam, harum rerum illustrationem per numeros desideret. Dantur rectæ A B, 6. A C, 8. C B, 10. *dantur etiam rationes rectarum* R A, R B, R C, 2. 3. 4. *deinde secatur* A B *in puncto* D *in ratione sesquialtera, vt* A D *sit* $2\frac{2}{7}$, D B $3\frac{3}{7}$. *secatur etiam* A C *in puncto* E, *in ratione dupla, vt* A E *sit* $2\frac{2}{3}$, E C $5\frac{1}{3}$. *quæ segmenta cum sint differentiæ trium rectarum* X A, X D, X B *continue proportionalium, ipsæ proportionales per Consectarium primi Lemmatis inveniuntur* X A, $4\frac{4}{7}$. X D, $7\frac{1}{7}$. X B, $10\frac{4}{7}$. *Eodem modo* N A, $2\frac{2}{3}$. N E, $5\frac{1}{3}$. N C, $10\frac{2}{3}$. *proximo in loco quærenda est recta* X N. *quæ (cum in hoc triangulo, anguli ad* A *sint recti) erit l.* 30$\frac{34}{225}$ *per* 47. *p.* 1. *lib. Encl. id est* 5491002742 *proxime. postea ducendæ sunt perpendiculares* A Q, B M, C L. R P. *& earum longitudines investigandæ, vnà cum segmentis* N P, N Q, N L, N M. *Quæ omnia hic in numeris expressa vides.*

Si C A B *fuisset obliquus, duæ perpendiculares ducendæ fuissent à punctis* C X *in latero* A B, A C *continuata. quæ erunt proportionales ipsis* AC, AX. *& invento segmento rectæ* A C *inter perpendicularem & A, nota erit distantia puncti* N *à perpendiculari, & invenietur quadratum rectæ* X N.

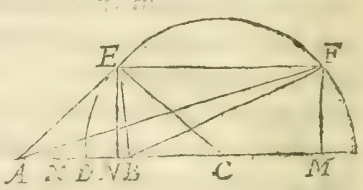
A Q	233108607	Qu. *R A.* 92632933	*R A.* 30435659
N Q	129504782	Qu. *R B.* 208424099	*R B.* 45653489
N P	61514772	Qu. *R C.* 370531732	*R C.* 60871318
P Q	67990010	Qu. *S A.* 586612350	*S A.* 76590623
R P	529773892	Qu. *S B.* 1319877788	*S B.* 1148859 34
B M	524494365	Qu. *S C.* 2346449400	*S C.* 153181246
C L	932434428		
P M / *P L*	456504354		

Et si centro P *radio* R P, *describatur peripheria* R H S: *& cogitemus eius planum ad rectos angulos erectum subiecto plano* X C B M; *vt punctum* H *perpendiculariter immineat puncto* P: *& rectas tres ductas à puncto sublimi* H *ad puncta* A B C: *earum quadrata erunt (vt priora) proportionalia quadratis* 4. 9. 16.

Qu. *A H.*	33962264	*A H.* 58277152
Qu. *B H.*	76415094	*B H.* 87415728
Qu. *C H.*	135849056	*C H.* 116554304

Quod si data Basi trianguli *A B* 10, vnà cum area *l.* 1575, & ratione laterum 3 ad 2. quærantur latera. Data basis *A B* partium 10, secetur data ratione in puncto *D*, vt sit *A D* 6, *D B* 4. horum segmentorum differentia *D X* 2, ita se habet ad *D B*, 4 minus segmentum, vt idem *D B*, 4 ad *B C*, 8, minimum è tribus continue proportionalibus: per Consectarium primi Lemmatis. Erunt igitur *C B*, 8: *C D*, 12. *C A*, 18 continue proportionales, & centro *C* radio *C D*, describenda est peripheria *D E F*. Deinde si area trianguli data *l.* 1575 dividatur per 5 semissem datæ basis, quotus *l.* 63 erit altitudo trianguli: qua inventa, ducatur *E N* perpendicularis basi & eidem altitudini æqualis; & per punctum *E* ducatur *E F*, parallela basi *A B*, interfecans peripheriam prius descriptam

tam in punctis *E F*, & connectantur puncta *E A*, *E B*, item *F A*, *F B*. aio *A E* esse ad *E B*, & *A F* ad *F B*, vt *A D* ad *D B*, per secundum Lemma: id est ex fabrica, vt 3 ad 2. eruntque triangula *A E B*, *A F B* æqualia inter se, quia æquealta in eadem basi. estque area alterutrius *l.*1575. Horum omnium veritas erit in numeris manifesta.



Logarithmi.

pro-portion. *XD.* 2 compl.ar. 969897001 — 2 *XD*
DB. 4 060205999
DB. 4 060205999 — 6 4
BC. 8 - - - - 1090308999 — *AD DB*

18 12 8
CA CD CB

EN } altitudo *l.*63.
FM }

Qu. *EN.* 63
Qu. *EC.* 144 — *CM.* 9
Qu. *NC* } 81 — *NC.* 9 — Qu. *EN.* 63 — *AB.*10 — Qu. *AN.*81
vel *MC* } — *CB.* 8 — Qu. *NB.* 1 — *NB.* 1 — Qu. *NE.* 63
*NB.*1 — Qu. *EB.*64 *EB.*8 — *AN.* 9 — Qu. *AE.*144 *AE.*12

CM. 9 — Qu. *BM.* 289 — *AC.* 18 — Qu. *AM.*729
CB. 8 — Qu. *FM.* 63 — *CM.* 9 — Qu. *FM.* 63
*BM.*17 — Qu. *BF.* 352 — *AM.*27 — Qu. *AF.* 792

pro-portion. 2, 3, *BD.* 4, *AD.* 6

pro-portion. *BD.* 4, *AD.* 6 — *EB.* 8, *EA.* 12 — *FB. l.*352, *FA. l.*792

pro-portion. Qu. *BD.* 16, Qu. *AD.* 36, Qu. *FB.* 352, Qu. *FA.* 792

Et si *EN* altitudo *l.*63, multiplicet *l.*25 semissem basis *AB*, factus *l.*1575. erit area.

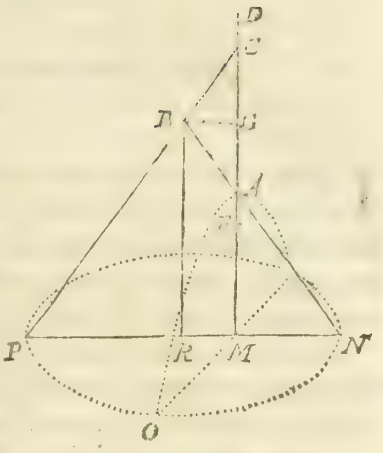
Caput. XXII.

Datis Basi, differentia crurum, & Area trianguli: invenire crura.

Flat *D E* basis & *C A* differentia crurum: & sint *G D*, *G E*: *G C*, *G A* æquales: & *G B* perpendicularis rectæ *D E* fiat media proportionalis inter *E C* & *C D*. & ducantur rectæ *C B P*, *B A N*: & *B R* parallela rectæ *D E*. Deinde divisa Area data per semissem basis *D E*; Quotus erit Altitudo trianguli *O M*. & si *R M* æquetur rectæ *B G* & angulus *R M O* sit rectus; erit *R O* radius circuli *P O N*. Et si secundum distantiam radij inventi *P R*, ducatur parallela rectæ *B R*, intersecans rectam *C B* in puncto *P*. & ducatur *P R M N* perpendicularis rectæ *D E*, & sit *O M* in plano subiecto perpendicularis diametro circuli *P N* in puncto *M*, & æqualis inventæ altitudini: erit differentia rectarum *D O*, *E O* æqualis rectæ *A C* datæ. per 51. p. 3. lib. Apollonij Pergæi. & triangulum quæsitorum laterum erit *D E O*.

In numeris res erit manifestior. Sit data basis *D E*, 25. *C A*, 20, Area 225. Erit *D C*, $2\frac{1}{2}$. *C E*, $22\frac{1}{2}$. factus seu rectangulum *D C E* $56\frac{1}{4}$, cuius latus $7\frac{1}{2}$ est *B G* media proportionalis inter *D C* & *C E*.

			Logarithmi.
prop.	*DC*	$2\frac{1}{2}$	039794001
	BG	$7\frac{1}{2}$	087506126
	CE	$22\frac{1}{2}$	135218252



Area data 225, diuiſa per ſemiſſem *DE* $12\frac{1}{2}$, dat quotum *OM* 18, altitudinem trianguli, cuius quadratum 324, adiectum oblongo *DCE*, $56\frac{1}{4}$, dat $380\frac{1}{4}$, quadratum radij conicæ baſis circularis *PON*, cuius latus $19\frac{1}{2}$, eſt radius *PR*. Sunt autem *BG*, $7\frac{1}{2}$. *GC*, 10: *PR*, $19\frac{1}{2}$. *RB*, 26 proportionales.

			Logarithmi.
pro-port.	*BG.*	$7\frac{1}{2}$ compl.ar.	912493874
	GC.	10 - - - -	100000000
	PR.	$19\frac{1}{2}$	129003461
	RB.	26 - - - -	141497335

Et *GM* æqualis rectæ *BR*. rectarum autem *GE*, *GM*, differentia eſt *EM*, $13\frac{1}{2}$: ſumma vero eſt *DM*, $38\frac{1}{2}$. quarum quadrata $1482\frac{1}{4}$, $182\frac{1}{4}$ adiecta quadrato rectæ *OM* altitudinis 324, dant quadrata rectarum *DO*, *EO* $1806\frac{1}{4}$. $506\frac{1}{4}$, & ſunt rectæ *DO*, $42\frac{1}{2}$. *EO*, $22\frac{1}{2}$. quarum differentia eſt æqualis rectæ *CA* 20.

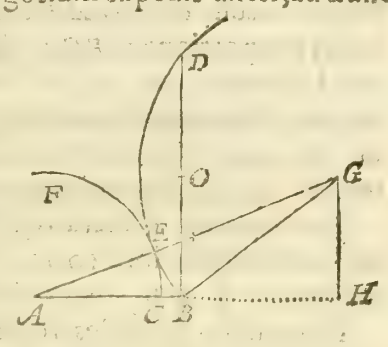
Aliud exemplum non pigebit adijcere vbi *BG* eſt irrationalis.

Sit *DE*, 26. *CA*, 22. area 156. Erunt *DC* 2. *CE* 24. & *BG*, *l.* 48, altitudo *OM* 12, cuius quadratum 144, additum quadrato rectæ *BG* 48, dat quadratum radij *RO*, vel *RP l.* 192. & cum *BG*, *GC*: *PR*, *RB* ſint proportionales; erunt earum quadrata etiam proportionalia.

			Logarithmi.
pro-port.	Qu. *BG.*	48 compl.arith.	831875876
	Qu. *GC.*	121	208278537
	Qu. *PR.*	192	228330123
	Qu. *RB.*	484	268484536

Et ipſa *RB* vel *GM* erit 22. *DM* vero erit 35, & *EM* 9. quarum quadrata 1225, & 81, adiecto vtrique quadrato altitudinis *OM* 144, faciunt 1369 & 225, quadrata laterum quæſitorum 37 & 15. quorũ differentia æquatur rectæ *CA* 22.

Fr. Vieta ad finem ſui Apollonij Galli hoc negotium expedit aliter, ad hunc modum. Eſto data baſis *AB*; differentia laterum quæſitorum *AC*; altitudo trianguli data *EO*, & fiat *DB* perpendicularis baſi, & dupla datæ altitudinis *BO*: & centro *A* radio *AC* deſcribatur peripheria *CEF*. Deinde per 8. Probl. Apoll. Galli deſcribatur alia peripheria *BED* contingens priorem peripheriam in puncto *E*, & tranſiens per puncta *BD*, erit centrum huius peripheriæ *G* vertex trianguli, cuius latus *AG* æquatur lateri *BG*, & datæ differentiæ *AC*.



Atque hic modus priorem in hoc ſuperare videtur, quod illic omnia fieri intelliguntur in loco ſolido, hic autem in eodem loco plano. eſt tamen hic modus non minus operoſus, aut magis certus, quam ille alter. & ſi iſta ad numeros reuocare velimus, illic omnia facillime expediuntur; hic verò non ſine magna & difficili moleſtia.

Caput XXIII.

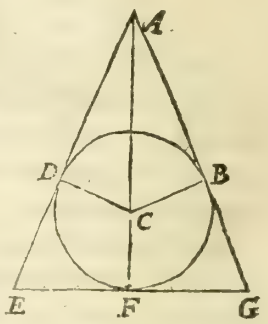
Triangulum invenire, cuius area (si numerum spectemus) æquetur Perimetro.

LIneam superficiei æquari posse nemo vnquam probabit: cum sint heterogeneæ magnitudines, inter quas nulla esse potest vel æqualitas vel ratio. veruntamen, si contigerit, mensuram longam toties contineri in perimetro, quoties eadem quadrata continetur in area trianguli; dicere poterimus, eius aream quodam modo æquari eiusdem Perimetro.

Si trianguli area æquetur perimetro, radius inscripti circuli est 2. & contra. Est enim area trianguli æqualis rectangulo comprehenso à radio inscripti circuli & semiperimetro. vt ostendi sect. 3. cap. 18.

Dato triangulo, aliud simile describere, cuius area æquetur perimetro. Quæratur radius circuli dato triangulo inscripti. per 3. sect. 18. cap. & fiant, radius dati, radius quæsiti 2; latera dati, & latera quæsiti trianguli proportionalia. Trianguli à proportionalibus lateribus comprehensi area, erit æqualis perimetro eiusdem. quia radius inscripti circuli est 2. Vt esto datum triangulum cuius latera 13, 14, 15. radius circuli inscripti erit 4. & sunt 4, 2: 13, $6\frac{1}{2}$: 14, 7: 15, $7\frac{1}{2}$ proportionales. alio areã trianguli, cuius latera sunt $6\frac{1}{2}$, 7, $7\frac{1}{2}$, per 1. sect. 18. cap. esse 21, æqualem perimetro eiusdem.

Atque hoc modo inveniemus aream trianguli æquilateri æquari perimetro; si vnumquodque latus sit *l.* 48. erit enim area *l.* 432, vel 2078460969. eius altitudo est 6, tripla radij circuli inscripti, quæ ducta in basim dimidiatam *l.* 12, facit aream *l.* 432. idem numerus proveniet, si latus *l.* 48 triplicetur. *l.* 48 multiplicatum per *l.* 9 facit *l.* 432. Atque hoc est omnium huiusmodi triangulorum minimum.

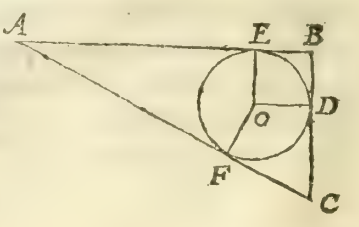


Triangula æquicrura huiusmodi quotlibet invenire poterimus hoc modo: fiat *ABC* triangulum rectangulum laterum rationalium, eo quo dictum est modo Cap. 18. & fiat *AF* æqualis hypotenusæ *AC* & lateri *CB*, & per proportionem quæratur *FG*. Vt *AB* ad *BC*, sic *AF* ad *FG*. erunt *FG*, *BG* æquales, & *AEG* triangulum æquicrurum datorum laterum, & *CF*, *CB*, *CD* æquales radij inscripti circuli. Vt esto *AB*, 12; *CB*, 5; *AC*, 13. erit *AF*, 18. & per proportionem *FG*, $7\frac{1}{2}$. & *AEG* triangulum datorum laterum $19\frac{1}{2}$, $19\frac{1}{2}$, 15. & *CF* radius inscripti circuli 5. atque vt fiat triangulum huic simile, cuius area æquetur perimetro; erunt 5, 2; $19\frac{1}{2}$, $7\frac{4}{5}$; 15, 6. proportionales, & triangulum æquicrurum comprehensum à lateribus $7\frac{4}{5}$, $7\frac{4}{5}$, 6. habebit tam aream quam perimetrum partium $21\frac{3}{5}$.

Eodem modo si latera *ABC* sint 5. 4. 3. erit triangulum æquicrurum comprehensum à lateribus 10, 10, 12. radius circuli inscripti 3. & huic triangulo simile $6\frac{3}{5}$ $6\frac{3}{5}$ 8. cuius area & perimeter $21\frac{3}{5}$.

Triangulum isosceles rectangulum est vnicum huius generis, cuius latera sunt. $4+l.8$. $4+l.8$. $4+l.32$. area vero vel perimeter est $12+l.128$. vel 233137084989 6.

In triangulis huiusmodi scalenis, si data fuerit perimeter, & angulus vnus sit rectus, auferantur 4 è perimetro, semissis reliqui erit Hypotenusa, quia in triangulo rectangulo *Diameter inscripti circuli, æquatur differentiæ Hypotenusæ & summæ crurum*, vt ostendi sect. 8. cap. 19. & idcirco, cum datæ sint Hy-

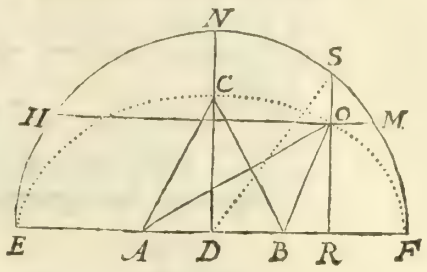


potenusa

potenuſa & ſumma crurum, invenientur crura per 6. ſect. cap. 19.

Sin datæ fuerint perimeter & baſis; inprimis quærenda eſt altitudo per proportionis regulam. Eſt enim baſis trianguli, ad ſemiperimetrum; vt radius inſcripti circuli, ad altitudinis quæſitæ ſemiſſem. inventa autem altitudine, reliqua omnia peraguntur, eo quo dictum eſt modo, in Capite 20. Vt eſto Perimeter, 28. Baſis, 8. & fiat *A B C* triangulum iſoſceles iſoperimetrum dato, ſuper baſim *AB*, 8. vt *A C*, *B C* ſint 10. Et radio *ED* 10, deſcribatur ſemiperipheria circularis *ENF*, & ſemiperipheria Elleiptica *ECF*. deinde quæratur Altitudo *OR*.

			Logarithmi.
	A B baſis - - - -	8	compl.ar. 909691001
pro-	Radi⁹ circuli inſcribẽdi	2	030102999
port.	Semiperimeter data	14	114612804
	ſemiſſis altitudinis *OR*	$3\frac{1}{2}$	1054406804



Et ducta perpendiculari *OR* 7, recta *HO* parallela baſi, interſecet peripheriam Elleipticam in puncto *O*, & ducantur *AO*, *RO*. Aio perimetrum trianguli *AOB* 28, æquari areæ eiuſdem. ſunt enim

			Logarithmi.
	Qu. *DC*	84	compl.ar. 807572071
pro-	Qu. *DN*	100	200000000
port.	Qu. *RO*	49	169019608
	Qu. *RS*	$58\frac{1}{3}$	1176591679

Qu. *DR* $41\frac{2}{3}$
BR. l. $41\frac{2}{3} - 4$
Qu. *BR. l.* bin. $57\frac{2}{3} - l.2666\frac{2}{3}$
Qu. *RO* - - 49
Qu. *BO. l* bin. $106\frac{2}{3} - l.2666\frac{2}{3}$
Qu. *AO. l* bin. $106\frac{2}{3} + l.2666\frac{2}{3}$

l. $2666\frac{2}{3}$ 5163977795
Qu. *BO* 5502688871
BO. 74180111
Qu. *AO* 1583064461
AO 125819889

AB 8
AO 125819889
BO 74180111
280000000 perim.

Notandum. In triangulo A B C, *ſi binarius auferatur è longitudine rectæ* C D, *& fiant* C B, B D: C D − 2, X Y *proportionales: ſi* X Y *ſit maior binario, poterit triangulo Quæſito* A O B, *circulus inſcribi, cuius radius erit* 2. *eritque area perimetro datæ æqualis, aliàs, erit area minor perimetro.*

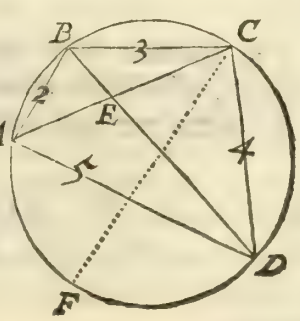
Caput. XXIIII.

Ex datis quatuor lineis rectis, quarum tres ſimul ſumptæ ſunt maiores reliqua, Quadrilaterum quod ſit in Circulo conſtituere.

SVnto data latera, partium 2. 3. 4. 5. & vt certi ſimus de laterum ſitu, fiat vtcunque quod imperatur: ſitque *AB*, 2. *BC*, 3. *CD*, 4. *DA*, 5. Inprimis autem quærendæ ſunt Diagonij *AC*, *BD*. quæ interſecantur in puncto *E*. Quod vt commodius fiat demonſtrandum eſt hoc Lemma.

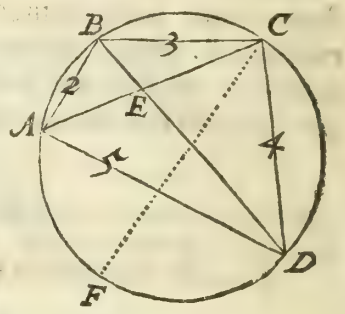
Lemma.

Segmentum quodlibet A E *eſt ad reliquam Diagonium* B D, *vt factus à lateribus eidem ſegmento contermiis* A B, A D 10, *ad* 26 *ſummam factorum à lateribus ijſdem* A B, 2. A D, 5, *in ſua contermina latera* B C, 3. D C, 4. Sunt enim triangula oppoſita *A E B*, *D E C*, ſimilia. item *B E C*, *A E D*. Et idcirco erit *A E* ad *E B*, vt 5 ad 3. & *A E* ad *E D*, vt 2 ad 4. Et *ſi idem numerus multiplicet facti ſunt proportionales multiplicatis*. 5 & 3 per 2 faciunt 10 & 6. &, 2 & 4



per 5 faciunt 10 & 20. Erit igitur AE ad BD, vt 10 factus à lateribus AB, AD conterminis segmento AE: ad 26 summam factorum ab ijsdem lateribus in sua latera contermina, AB in BC, 6: & AD in DC, 20. Eadem de causa, erit CE ad BD, vt 12 ad 26. & tota AC ad BD, vt 22 ad 26.

$AE, EB.$	5, 3.	10, 6.	prop.
$AE, ED.$	2, 4.	10, 20.	prop.
$AE, BD.$		10, 26.	prop.
$CE, EB.$	4, 2.	12, 6.	prop.
$CE, ED.$	3, 5.	12, 20.	prop.
$CE, BD.$		12, 26.	prop.
$AE+EC, BD.$		10+12, 26.	prop.



Hinc deducitur Consectarium.

Diagonij, sunt aggregatis factorum à conterminis lateribus proportionales.

AB in AD, 10.		BA in BC	6
CB in CD, 12.		DA in DC	20
AC	22	BD	26 aggregata proportionalia.

Et cum facti ab oppositis lateribus BC in AD, 15: & AB in CD, 8: simul sumpti, æquentur facto à Diagonijs; (per 54. pr. libri 1. Pitisci & Ptolem. lib. 1. Mathematicæ syntaxis) erit factus ab AC in BD, 23. Datis autem Rectangulo AC, BD 23. & ratione laterum AC ad BD, vt 11 ad 13: dabuntur ipsa latera, AC, *l.* $19\frac{6}{13}$; BD, *l.* $27\frac{2}{11}$.

Est enim Rectangulum à lateribus comprehensum, medium proportionale inter Quadrata laterum. & vt AC, ad BD: sic Qu. AC, ad AC in BD: & AC in BD, ad Quad BD.

pro-port. { 11, 13, AC, BD } prop. { Qu. AC, AC in BD. 23, Qu. BD. }

pro-port. { 11, 13, 23, $27\frac{2}{11}$ Qu. BD }

pro-port. { 13, 11, 23, $19\frac{6}{13}$ Qu. AC }

		Logarithmi.
13	compl.ar.	888605665
11		104139269
23		136172784
		128917718

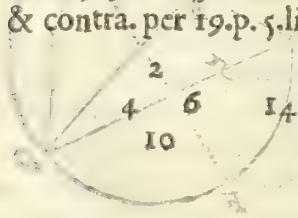
Erunt igitur triangula ABC, ADC datorum laterum: & datis lateribus trianguli cuiuscunque inscripti ABC, dabitur diameter circuli CF. per 4. sect. 18. cap. quæ in hoc circulo est *l.* $27\frac{11}{13}$. Vide Fr. Vietam ad finem Pseudomesolabij. & Iohannis Prætorij problema.

ALITER.

Vt hoc fiat, alia tria Lemmata sunt demonstranda.

Lemma secundum.

Si quatuor rectæ sint proportionales: *Differentia (vel summa) primæ & secundæ, est ad differentiam (vel summam) tertiæ & quartæ; vt prima ad tertiam.* & contra. per 19. p. 5. lib. Eucl.



2		7	Differentiæ.
4	6	14	21 Proportionales.
10		35	Summæ.

Lem-

Lemma tertium.

In quatuor proportionalibus: *Si datæ ſint differentiæ primæ & ſecundæ, ſecundæ & tertiæ, tertiæ & quartæ; dabuntur ipſæ proportionales*, vt ſint *A, B; C, D* proportionales & differentiæ 2. 8. 7. Erit differentia *A* & *C* 10, æqualis differentijs 2, 8 datis: & ratio *A* ad *C*, vt 2 ad 7 per ſecundum Lemma. * Sumatur 5 differentia 2 & 7. ea ita ſe habet, ad 2 (vel 7) vt 10 differentia *A* & *C*, ad *A* 4 (vel *C* 14). erit igitur *A*, 4. *B*, 6. *C*, 14. *D*, 21.

2 8 7 Differentiæ datæ. 5 10 differentiæ datæ:
A, *B*: *C*, *D* proportionales. 2, 7: *A*, *C*. proportionales.
4 6 14 21

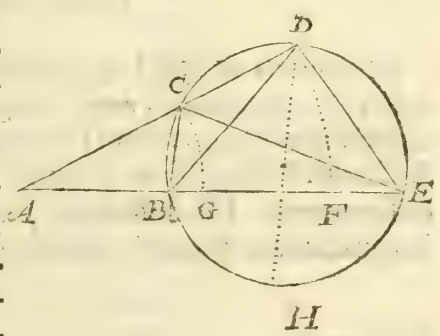
* Notandum. *Si proportionales à prima ad vltimam creſcant vel decreſcant, ſumenda erit differentiarum primæ & ſecundæ ſumma. alias ſi creſcente ſecunda decreſcat tertia, vel contra: auferenda erit minor differentia è maiore, & pars reliqua erit differentia primæ & tertiæ. vt*

5 11 2 3 6 diff. datæ 3, 2: 6, *C*. 4. prop.
A, *B*. *C*, *D* 5, 2: *A*, *C* proport. 3, 5: 6, *A*. 10. prop.
10. 15. 4 6

Lemma quartum.

In quatuor proportionalibus: *Si datæ ſint differentiæ primæ & quartæ, ſecundæ & tertiæ; vtà cum ratione primæ ad tertiam: ipſæ proportionales inveniuntur*, vt ſunto datæ differentiæ, primæ & quartæ 23, ſecundæ & tertiæ 12, & ſit ratio primæ ad tertiam, vt 2 ad 9. inprimis differentia mediarum 12 * auferatur è differentia extremarum 23; reſtabunt 11, ſumma differentiarum primæ & ſecundæ, tertiæ & quartæ. Deinde termini rationis datæ inter primam & tertiam addantur: erit ſumma terminorum ad terminum antecedentem; vt ſumma differentiarum ad differentiam antecedentem. Dabuntur igitur differentiæ, primæ & ſecundæ, tertiæ & quartæ. differentia autem ſecundæ & tertiæ antea dabatur. Idcirco per tertium Lemma, erit prima proportionalium, & reliquæ notæ.

* *Creſcentib⁹ omnib⁹ vt in diagrãmate: vel decreſcentibus,*



Eſto Trapezium laterum inæqualium *BCDE*. *BC*, 6. *CD*, 9. *DE*, 12. *EB*, 15. cuius latera oppoſita *CD*, *BE* continuata concurrent in puncto *A*. eruntq; rectæ *AB*, *AC*: *AD*, *AE* proportionales: per 36. p. 3. lib. Eucl. & triangula *ABC*, *ADE* ſimilia: per 6. pr. 6. lib. Eucl. & idcirco *BC* 6, *DE* 12 proportionales rectis *AB* primæ proportionalium, & *AD* tertiæ. & ſunt datæ *CD* 9 differentia ſecundæ & tertiæ, & *BE* 15 differentia primæ & quartæ.

His datis quærendæ ſunt *AB* prima & *AC* ſecunda. Auferatur *GF* æqualis rectæ *CD*, 9: è recta *BE*, 15. reſtabunt *BG* & *FE*: quæ ſimul ſumptæ ſunt 6. & eſt *BG* differentia primæ & ſecundæ, & *FE* differentia tertiæ & quartæ. Sunt igitur *AB*, *AD*: *BG*, *FE* proportionales, per primum Lemma. id eſt, vt ante oſtendi *BC*, *DE*: *BG*, *FE* ſunt proportionales. Et per tertium Lemma, vt ſumma *BC*, *DE* 18; ad *BC*, 6: ſic ſumma *BG*, *FE* 6, ad *BG* 2. dantur igitur *BG* 2 differentia primæ & ſecundæ, *CD* 9 differentia ſecundæ & tertiæ, & *FE* 4 differentia tertiæ & quartæ. Et per ſecundum Lemma, cum ratio primæ ad tertiam ſit vt 6 ad 12, vel vt *BC* ad *DE*, erit vt differentia 6 ad 12 ter-

minum maiorem, ſic 11 differentia AB, AD, primæ & tertiæ, ad AD tertiã 22. Erunt igitur AB, 11. AC, 13. AD, 22. AE, 26.

Diagonij autem BD, CE ſic inveniuntur. facti ab oppoſitis inſcriptis lateribus BC in DE, 72: & CD in BE, 135: ſimul ſumpti æquantur facto à Diagonijs. per 54.p.1.lib.Pitiſci. eſt igitur factus à Diagonijs 207. ipſę autem diagonij ſunt proportionales rectis AB, 11: AC, 13. quia triangula ABD, ACE ſunt æquiangula & ſimilia; & idcirco rectangulum BD, CE eſt ad Quadratum BD, vt 13 ad 11: vel, vt AC, ad AB. erit igitur BD, $l.175\frac{2}{13}$, & CE, $l.244\frac{7}{11}$. Eſt igitur CBD triangulum datorum laterum 6. 9. $l.175\frac{2}{13}$, & perpendicularis ab angulo B in latus AC, $l.25\frac{5}{169}$. dameter autem circuli circumſcripti, DH, $l.246\frac{27}{40}$.

Caput XXV.

Data Diametro, invenire Circuli Peripheriam & Aream; & Sphæræ Superficiem & Soliditatem. Et data harum qualibet, invenire quamlibet reliquarum.

RAtio Peripheriæ ad Diametrum eſt ſecundum Archimedem minor quam tripla ſeſquiſeptima; maior autem quam tripla ſuperpartiens decem ſeptuageſimas primas. Ptolemæus mediam ſecutus rationem, ſexto libro Mathematicæ ſyntaxis, ponit Peripheriam ad Diametrum eſſe, vt 3: 8: 30 ad 1. At Ludolphus van Culen, vt 3141592653589 79 ad 1. quem ego proxime accedere ad veritatem comperi. Atque vt Lector melius poſſit de hiſce rationibus iudicare, eas omnes redigendas cenſui ad eundem terminum conſequentem. ad hunc modum.

Sit Diameter - - - - - - - - - - - - - - - - - - 10000000000

Peripheria erit ſecundum
- Archimedem
  - minor quam 22 ad 7 - - 31428571428
  - maior quã 223 ad 71 - - 31408450704
- Ptolemæum 3: 8: 30 ad 1 31416666
- Ludolphum van Culen - - - - - - 31415926535 9

Accepimus ex ipſa Logarithmorum definitione cap.1. *Si Logarithmorum differentiæ ſint æquales: numeri Logarithmis reſpondentes ſunt proportionales.* Sumantur igitur Logarithmi Diametri & Peripherię: item quadrati è diametro; & Circuli & Superficiei ſphæricę. Cubi item & Sphærę: vnà cum eorum differerentijs. Hę differentię, additę Logarithmo dati numeri, dabunt Logarithmum numeri cuiuſcunque proportionalis quæſiti.

		Logarithmi.	
Diameter	10	10000000000000	
Peripheria	3141592653589 79	1497149872691 02	
		0497149872691 02	Differentia *A*.

Area circuli, æquatur rectangulo comprehenſo à ſemidiametro & ſemiperipheria. per 1.pr. Archim de dimenſione circuli. vel è diametro & quadrante peripherię. idcirco ſi Logarithmus quaternarij auferatur è Logarithmis Diametri & peripherię, reſtabit Logarithmus Areæ circularis. Eſt enim factus à tota Diametro, in totam Peripheriam, quadruplus Areæ circularis. & ſi auferatur Logarithmus diviſoris, è Logarithmo facti vel dividendi, reſtabit Logarithmus quoti. per 3. ax. 2.cap.

Diame-

	Logarithmi.
Diameter 10	100000000000000
Peripheria 314159	149714987269102
4 Logarithmus auferendus	060205999132796
Areæ 7853981633974483	189508988136306

Cum Areâ inventâ conferatur Quadratum Diametri.

	Logarithmi.
Quadratũ Diametri 100 - - - - -	200000000000000
Area circuli - - 7853981633974483	189508988136306
	010491011863694 Differentia *B*

Vbi notandum, Quadratum Diametri maiorem obtinere rationem ad Aream circuli, quam 14 *ad* 11. *nam ratio* 14 *ad* 11 *est vt* 100 *ad* 7857142857. *At circulus est aliquanto minor. nempe* 785398. *Quod ideo contingit, quia ratio peripheriæ ad diametrum, minor est quam tripla sesquiseptima.*

Deinde conferatur Quadratum diametri cum superficie Sphęrica. Est autem superficies sphęrica quadrupla maximi circuli, per 30 pr. Archimedis de Sphęra & Cylindro, vel ęqualis rectangulo comprehenso à Diametro & Peripheria.

	Logarithmi.
Quadratum diametri 100 - - - - -	200000000000
Superficies sphærica 3141592653589 79	249714987269102
	049714988269202 Differentia *C*

Differentia C *est eadem cum differentiâ* A *prius inventâ. Quia quadratum Diametri est ad superficiem Sphæricam: vt ipsa Diameter ad Peripheriam. cum Quadratum & Sphæricum, fiant ex multiplicatione eiusdem Diametri, in seipsam & in Peripheriam.*

Postremo conferatur Cubus Diametri cum Sphęrâ.

Sphęra est ad Cylindrum circumscriptum, in ratione subsesquialterâ. Archim. consect. pr. 31. lib. 1. de Sphęra & Cyl. Idcirco, cum fiat hic Cylindrus, ex multiplicatione circuli in suam Diametrum; eadem basis circularis, ducta in duas tertias Diametri, dabit soliditatem Sphęrę.

	Logarithmi.
Circulus - - - 7853981633974483	189508988136306
$\frac{2}{3}$ Diametri. $6\frac{2}{3}$	082390874094432
Sphæra - - - 523598775598322	271899862230723 8
Cubus Diametri 1000 - - - - - -	300000000000000 0
	028100137759262 Differentia *D.*

Vt antea, ratio Quadrati ad Circulum erat maior quam 14 ad 11: sic ratio Cubi ad Sphęram, eandem ob causam, maior est quam 21 ad 11.

Differentia Logarithmorum,	Diametri & Peripheriæ	049714987269102	*A*
	Quadrati & Circuli	010491011863694	*B*
	Quadrati & Sphærici	049714987269102	*C*
	Cubi & Sphæræ	028100137760262	*D*

Inventis his Logarithmorum differentijs *A*, *B*, *C*, *D*, poterimus pro data quacunque Diametro invenire Peripheriam, Aream circuli, superficiem Sphęricam, & Sphęram. & contra. Quando hę differentię sunt addendę, quando auferendę, rei ipsius datę natura ostendet. Quę omnia vnicum exemplum illustrabit. Esto datus numerus 22.

Logarithmi.		
22 - - 134242268		Si datus 22 sit Diameter; erit Totus 183957255
Diff. *A.* 049714987		Logarithmus Peripheriæ, 691150383 8
Totus 183957255	Peripheriæ.	Sin 22 sit Peripheria; Reliquus 084527281
Reliqu° 084527281	Diametri.	erit Logarithmus Diametri, 70028175

Si quęratur Area Circuli cuius Diameter eſt 22, erit Area 38013272.

	Logarithmi.	
22 Diameter	134242268	
Quadratum Diametri	268484536	
Differentia *B*	010491012	
Reliquus	257993524	Areæ 38013272

Si 22 ſit Area circuli, erit Diameter 52925676.

	Logarithmi.	
22 Area circuli	134242268	
Differentia *B*	010491012	
Totus	144733280	Quadrati è Diametro
	072366640	Diametri 52925676

Si 22 ſit Quadratum Diametri erit Area circuli 17278760.

	Logarithmi.	
22 Quadratum Diametri	134242268	
Differentia *B*	010491012	
Reliquus	123751256	Area circuli 17278760

Si 22 ſit Diameter circuli erit Sphęricum 152053083.

	Logarithmi.	
22 Diameter	134242268	
Quadratũ Diam.	268484536	
Differentia *C*	049714987	
Totus	318199523	Sphærici 152053083

Sphæricũm eſt quadruplum maximi circuli, qui antea inventus fuit 38013272.

22 Diameter erit Sphæra 55752799.

	Logarithmi.	
Cubus Diametri	402726804	
Differentia *D*	028100138	
Reliquus	374626666	Sphæræ 55752799

Si 22 ſit Sphæra erit Diameter 347649296.

	Logarithmi.	
22 Sphæra	134242268	
Differentia *D*	028100138	
Totus	162342406	Cubi è Diametro
	054114135	Diametri 347649296

Poterunt etiam eadem inveniri aliter. vt *ſi à Logarithmis Circuli & Diametri duplicatæ, auferatur Logarithmus Ternarij, reliquus erit Logarithmus Sphæræ.*

	Logarithmi.	
Diameter duplicata 44	164345268	
Circulus 38013272	257993524	
Totus	422338792	Cylindri duplicati
Ternarius 3	047712126	
Reliquus	374626666	Sphæræ 55752797

Huius rei hęc eſt cauſa. Factus à Circulo in Diametrum duplicatam, eſt duplus Cylindri illius, cui Sphæra inſcribi poterit. eſt igitur Sphæra pars tertia Cylindri iſtius duplicati. & idcirco ablato Logarithmo ternarij, reſtabit Logarithmus trientis: id eſt, Sphærę.

Si Logarithmo ſemidiametri duplicato, addatur Differentia *A*; totus erit Logarithmus Circuli.

Semi-

	Logarithmi.	
Semidiameter 11 - - - - -	1041392685	
Logar. Semidiametri duplicatus	2082785370	Quadrati è Radio 121
Differentia *A* - - - - - - -	0497149872	
	2579935242	Circuli 38013272

Quadratum Radij eſt ad Circulum, vt Radius ad ſemiperipheriam. Idcirco differentia *A* (quę eadem vbique ſervatur, ex Logarithmorum definitione, ſi ratio ſit eadem, quæ eſt Diametri ad Peripheriam) adiecta Logarithmo Quadrati è Radio, dabit Logarithmum Circuli.

Caput XXVI.

De Elleipſi, Sphæroeide, & Dolio.

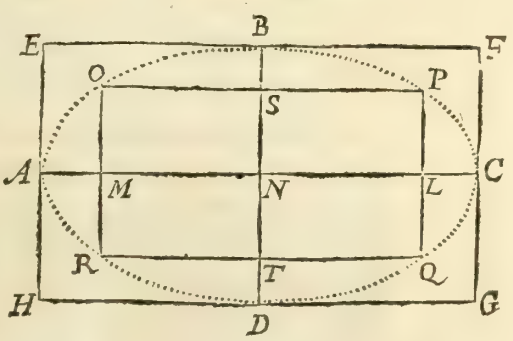
Elleipſis eſt communis interſectio ſuperficiei Conicæ & ſuperficiei planæ ſecantis conum ex omni parte. Sumitur etiam Elleipſis pro ipſa figura, ab huiuſmodi ſectione comprehenſa; quę dici poterit circulus oblongus, vel Cycloeides: vt apud Archimedem ſphæroeides dicitur, quę ſphærę ſimilitudinem obtinens, inęqualiter diſtat à medio comprehenſi ſpatij. vt *ABCD* Elleipſis, eſt vel peripheria ambiens, vel figura intus comprehenſa. eius diameter longiſſima *AC*, breviſſima *BD*, priorem ad rectos angulos interſecans in Centro *E*.

Elleipſis eſt media proportionalis inter circulos Diametrorum *AC*, *BD*. Archim. prop. 5. lib. de Conoid. nam vt Oblongum rectangulum, à lateribus inęqualium quadratorum comprehenſum, eſt medium proportionale inter Quadrata: ſic Elleipſis eſt media proportionalis inter Circulos diametrorum inęqualium. Et rectangulum à Diametris *AC*, *BD* comprehenſum, eſt ad Elleipſim: vt Quadratum Diametri ad Circulum. Datis idcirco Diametris *AC*, *BD*; aream Elleipſis ſic inveniemus. A Logarithmis Diametrorum auferatur Differentia *B*, (quę ſuperiori Capite ablata è Logarithmo Quadrati relinquebat Logarithmum circuli) reliquus erit Logarithmus Elleipſis. vt ſunto Diametri *AC*, 8 : *BD*, 5.

		Logarithmi.	
Diametri	8	090308999	
	5	069897000	
ſumma		160205999	rectanguli 40 comprehenſi à diametris.
Diff. *B*		010491012	
Logarithmus areæ		149714987	area Elleipſis 3141592692

Idem Areæ quęſitæ Logarithmus invenietur, ſi loco Differentię *B* auferendę, addatur eius complementum. vt in Cap. 15. oſtendimus, vt

		Logarithmi.	
Diametri	8	090308999	
	5	069897000	
compl. Diff. *B*		989508988	
		1149714987	Logarith. areæ



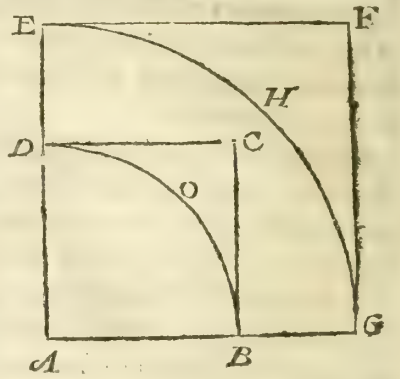
Eadem area prodibit, ſi quęratur per cap. 17. medius proportionalis inter datarum diametrorum Circulos, inventos per cap. 25.

	Logarithmi.	
Quadratum diametri *AC*. 64	180617997.	
Differentia *B* auferenda ab vtroque	010491012	
Quadratum diametri *BD*. 25	139794001	
Reliquus. Logar. circuli maioris	170126985.	circulus maior 502654824
Reliquus. Logar. circuli minoris	129302989.	circulus minor 196349541
Summa Logarithmorum	299429974	
Logarithmus medij proportionalis	149714987.	Elleipsis - - 3141592692

			Logarithmi.
proport. vel vt Diameter minor	5	compl. Arith.	930102999
ad Diametrum maiorem	8		090308999
sic circulus minor			129302989
ad Elleipsim - - - - - - - - -			1149714987

2. *Si duo circuli sint concentrici, Area eorum peripherijs interiecta æquatur Elleipsi, cuius Diametri sunt summa & differentia datarum Diametrorum.*

Nam vt in Quadratis, *Differentia Quadratorum æquatur rectangulo comprehenso à summa & differentia Laterum*: sic in Circulis, *Differentia Circulorum æquatur Elleipsi, cuius Diametri æquantur summæ & differentiæ datarum diametrorum*. Est enim Rectangulum à Diametris comprehensum, medium proportionale inter Quadrata diametrorum: & Elleipsis est media proportionalis inter Circulos diametrorum. Erit igitur vt Quadratum ad Rectangulum; sic Circulus ad Elleipsim. & alterne; vt Quadratum ad Circulum, sic Rectangulum ad Elleipsim: & Rectangulum quod differentiæ Quadratorum est æquale; ad Elleipsim, quæ differentiæ Circulorum æquabitur.



Rectang. 39	Differentia	306305284	Elleipsis Differē.
Quad. 64	Quad. 25	Circulus 502654824	Circulus 196349541

Vt esto Diameter longior 8, minor 5. erunt Quadrata 64. 25. Circuli 502654824, 196349541. Differerentia Quadratorum 39. Differentia Circulorum 306305284.

Sunto Diametri Elleipsis, 13 summa, 3 differentia diametrorum datarum. Rectangulum 39, eius Logarithmus 159106461. Differentia *B* ablata, relinquit 148615448. Logarithmum Elleipsis 306305284.

		Logarithmi.
Diametri	13	111394335
	3	047712125
Compl. Diff. *B* - -		989508988
Logar. differ. circulorū	1148615448	Elleipsis 306305284

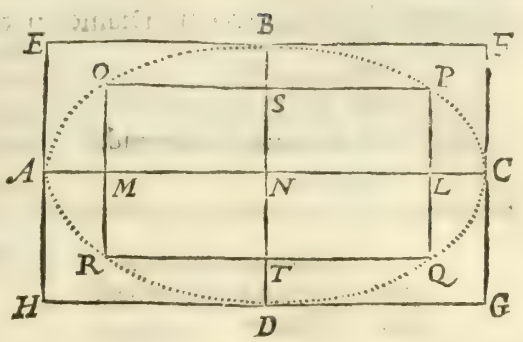
3. Si Cylindro, cui Sphæra inscribitur, circumscribatur Cubus: erunt vt Diameter Sphæræ, ad Quadrantem Peripheriæ maximi Circuli, & ad Sextantem eiusdem: sic Quadratum Diametri, ad Circulū, & ad duas tertias Circuli. Et sic Superficies Cubi, ad Superficies Cylindri & Sphæræ: sic etiam Cubus, ad Cylindrum & Sphæram.

Esto Diameter Sphæræ 7

Erit Quadrans Peripheriæ	54977871438	Tres primi tribus proximis, reliquisq;
Sextans Peripheriæ	36651914292	sequentibus, sunt proportionales.

Qua-

Quadr.Diametri	49
Circulus	38484510006 6
¾ Circuli	28863382500445
Superficies Cubi	294
Superf.Cylindri	230907060039 6
Superf.Sphæræ	153938040026 4
Cubus	343
Cylindrus	269391570046 2
Sphæra	179594380030 8



Sphæroeides fit, converſione ſemielleipſis manente altera Diametro. Si maneat *AC* diameter longior, fit Sphæroeides oblonga; ſin maneat *BD*, fit Sphæroeides lata. quæ ambæ ſunt mediæ continue proportionales, inter Sphæras inęqualium diametrorum: & earum vtraque, eſt in ſubſeſquialtera ratione ad Cylindrum, cuius altitudo ęquatur Diametro manenti, baſis vero eſt circulus, motu ſemidiametri circumactæ deſcriptus.

Datis altitudine & craſſitudine Sphæroeidis, eius ſoliditatē ſic inveniemus. Addatur Logarithmus altitudinis, Logarithmo quadratæ craſſitudinis: totus erit Logarithmus Parallelepipedi eiuſdem altitudinis & baſis quadratę. Hinc auferenda eſt differentia *B* capitis 25. reſtabit Logarithmus Cylindri, Sphæroeidi circumſcripti: à quo ſi auferatur Differentia rationis ſeſquialteræ 01760912590556 8, reſtabit Logarithmus Sphæroeidis. Vt ſunto Diametri Elleipſis 8. 5. & manente diametro minore fiat Sphæroeides lata: quęritur ſoliditas.

		Logarithmi.
Rationis ſeſquialteræ Termini	3	0477121254719 66
	2	0301029995663 98
Differentia Logar.		0176091259055 68

	Logarithmi.
Diameter craſſitudinis 8	090308999
Quadratum 64	180617997
Altitudo 5	069897000
Prallelepipedum 320	250514997
Differentia *B* auferenda	010491012
Cylindrus 25132741	240023985
Differentia rationis ſeſquialteræ	017609126
Sphæroeides 167551605	222414859

Vel, per cap. 15. Quadrati & altitudinis Logarithmis, addantur complementa Differentiæ *B*, & Differentiæ rationis ſeſquialteræ: Totus (dempta prima nota 2) erit Logarithmus Sphæroeidis.

	Logarithmi.
Quadrati 64	180617997
Altitudinis 5	069897000
Compl. Differentiæ *B*.	989508988
Compl. Differentiæ rationis ſeſquialteræ	982390874
Sphæroeides	2222414859

Eandem ſoliditatem Sphæroeidis, per proportionis regulam inveniemus. Sunt enim Parallelepipeda quorum baſes ſunt ęquales, ipſis altitudinibus proportionalia. eodem etiam modo tam Cylindri, quam Sphæroeides Cylindris inſcriptę, ſi ſint eiuſdem craſſitudinis, ſunt altitudinibus proportionales. Erit igitur Sphæra, ad Sphæroeidem eiuſdem craſſitudinis; vt Diameter vel altitudo

altitudo Sphæræ, ad altitudinem Sphæroeidis. Quærendus est idcirco Logarithmus Sphæræ pro data Diametro, per Cap.25.&c.

	Logarithmi.
Diameter 8	090308999. 1
Cubus Diametri	270926996. 3
Differentia *B* auferenda	028100138
Sphæra	242826858

			Logarithmi.
propport.	Altitudo Sphæræ 8	Compl.Arith.	909691001
	Altitudo Sphæroeidis 5		069897000
	Sphæra		242826858
	Sphæroeides		2222414859

Vel quia Parallelepipedum est ad Sphæroidem inscriptam, vt Cubus ad Sphæram: è Logarithmo Parallelepipedi prius invento, auferatur Differentia *D*. cap.25. reliquus erit Logarithmus Sphæroeidis.

	Logarithmi.
Parallelepipedū	250514997
Differentia *D*	028100138
Sphæroeides	222414859

Atque hęc est Sphæroeides Lata. Sphæroeides Oblonga eodem modo invenietur.

Esto Diameter crassitudinis 5. Altitudo 8.

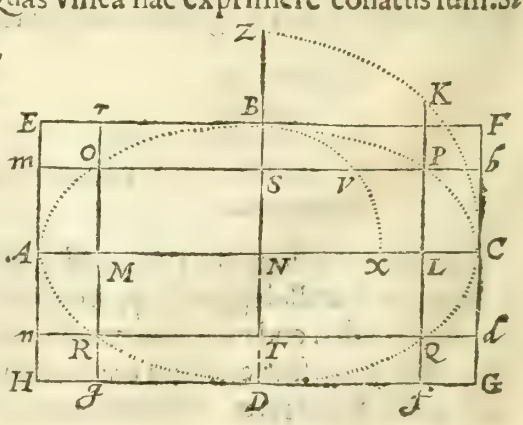
	Logarithmi.
Diameter 5	069897000
Cubus Diametri 125	209691001
Differentia *D*	028100138
Sphæra	181590863

			Logarithmi.
propport.	Altitudo Sphæræ 5	compl.Arith.	930102999
	Altitudo Sphæroeidis 8		090308999
	Sphæra		181590864
	Sphæroeides 1047 19755		1202002862

Atque ad hunc modum vtrasque Sphæroeides invenimus, quæ sunt connue proportionales inter Sphæras Diametrorum inęqualium 8. & 5.

		Logarithmi.
contin. propor.	Sphæra cuius Diameter 8 - - 268082573 - -	242826858
	Sphæroeides crassa 8, alta 5 - - 167551608 - -	222414860
	Sphæroeides crassa 5, alta 8 - - 104719755 - -	202002862
	Sphæra cuius Diameter 5 - - 65449847 - -	181590863

4 Si segmenti Sphæroeidis soliditatem scire velimus, consulendę sunt Archimedis prop.31.&33.lib.de Conoid. Quas vnicâ hâc exprimere conatus sum. *Si Sphæroeides plano secetur perpendiculari ad axem: segmentum Sphæroeidis est ad Conum æqualtum, habentem eandem cum segmento basim; vt composita ex axe dimidiato & altitudine reliqui segmenti, est ad altitudinem reliqui segmenti.* Vt esto Sphæroeis *A B C D*, secta plano transeunte per *P Q*, & perpendiculari axi *A C*: aio segmentum *P C Q*, esse ad Conum, cuius basis est Circulus Diametri *P C*, altitudo vero *C L*:



CL: vt compoſita ex NA & AL, ad AL. Eſto AC, 20. BD, 12. CL, 2. erit PL 36. Nam ſi in Ellipſi $ABCD$ deſcribantur duę peripherię quarum radij ęquantur rectis NC, NB & ducantur. PL PVS perpendiculares radijs NC NB erunt NZ, NB: LK, LP item NC, NX: SP, SV. Proportionales. Eſt autem LK per 13. pro. 6. lib. Eucl. media proportionalis inter CL 2 & LA 18, erit igitur LK, 6. & PL, 36.

pro-portion. NZ 10, NB 6, LK 6, LP 36 — prop. AL 18, LK 6, LC 2

		Logarithmi.
PQ Diameter 72		085733250
Quadrantum PQ		171466500
Differentia B auferenda		010491012
Circulus PQ	4071150408	160975488
Altitudo CL 2		030102999
Cylindrus $PbdQ$	8143008816	191078487
3. Logar. auferendus		047712125
Conus $\frac{1}{3}$ Cylindri PCQ	2714336052	143366362

			Logarithmi.
pro-portion.	AL 18	compl. Arith.	874472749
	$NA+AL$ 28		144715803
	Conus PCQ	2714336052	143366362
	Segm. Sphæroeidis PCQ	4222300532	1162554914

		Logarithmi.
Circulus PL	4071150408	160975488
Altitudo AL 18		125527251
Cylindrus $mPQn$	7328707343	286502739
3. Logarithmus auferendus		047712125
Conus $APQ\frac{1}{3}$ Cylindri	2442902447	238790614

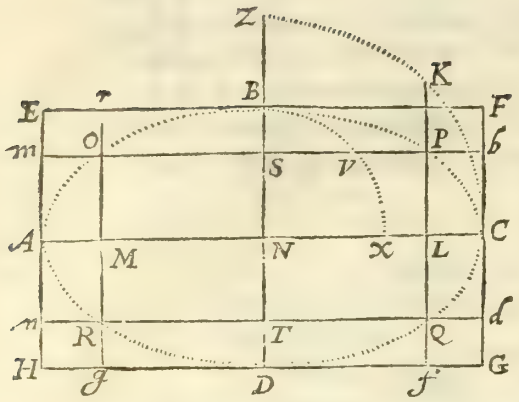
			Logarithmi.
pro-portion.	CL 2	compl. Arithm.	969897001
	$CN+CL$ 12		107918125
	Conus PAQ	2442902447	238790614
	Segm. Sphær. PAQ	14657414684	1316605740

Segmentum PCQ	4222300532
Segmentum PAQ	14657414684
Tota Sphærois	15079644737

	Logarithmi.
BD Diameter 12	107918125
Quadratum BD	215836249
Differentia B auferenda	010491012
Circulus BD 1130973355	205345237
Axis AC 20.	130102999
Cylindrus 22619467 10	335448236
Differẽtia rationis ſeſquialteræ	017609126
Sphæroeides 15079644737	317839110

Sin fuerit BD axis Sphæroeidis Latæ, & tranſeat planum ſecans per rectam OP, erit OP partium 16, & Circulus cuius Diameter OP 201061920829747 2. SB, 24. SD, 96.

Cylindrus $rOPK$ 4825486315 9. Conus OBP 1608495438 6.



	Logarithmi.
OP Diameter 16	1204119 98
Quadratum *OP* 256	2408239 96
Differentia *B* auferenda	0104910 12
Circulus *OP* 201061929 83	2303329 85
Altitudo *BS* 24	0380211 24
Cylindrus *rKPO* 4825486 3159	2683541 09
3. Logarithmus auferendus	0477121 25
Conus *OBP* 1608495 4386	2206419 84

			Logarithmi.
pro-port.	*SD* 96	compl Arithm.	8017728 77
	ND+SD 156		2193124 60
	Conus *OBP* 1608495 4386		2206419 84
	Segmentũ *OBP* 2613803 0877		1241727 321

	Logarithmi.
Circulus *OP* 201061929 83	2303329 85
Altitudo *SD* 96	0982271 23
Cylindrus *OgfP* 1930194526 37	3285601 08
3. Logarithmus auferendus	0477121 25
Conus *ODP* 6433981754 6	2808479 83

			Logarithmi.
pro-port.	*BS* 24	compl. Arithm.	8619788 76
	BS+BN 84		1924279 29
	Conus *ODP* 6433981754 6		2808479 83
	Segmentũ *OADCP* 2251893 6141		1335254 788

Segmentum *OADCP*	2251893 6141
Segmentum *OBP*	261380 5088
Tota Sphærois	2513274 1229

	Logarithmi
AC Diameter 20	1301029 9956
Cubus Diametri 8000	3903089 9870
Differentia D auferenda	0281001 3777
Sphæra 4188790 2047864	3622088 6093

			Logarithmi.
pro-port.	*AC* 20	complem. Arithm.	8698970 0044
	BD 12		1079181 2460
	Sphæra Diametri *AC* 4188790 2047864		3622088 6093
	Sphæroeides *BADC* 2513274 1228718		1340023 98597

Atque ad hunc modum si Sphæroeides vnico secetur plano, perpendiculari ad axem, poterimus vtriusque segmenti soliditatem invenire.

Supereſt Segmentum quood ſuperficie Sphæroeidis, & duobus planis perpendicularibus Axi & æquidiſtantibus à centrro comprehenditur. cuiuſmodi eſt Dolium noſtrum: cuius capacitatem metiri poterimus, ſecundum ea quæ ſuperius dicta ſunt ex Archimede. ſic Pantometria lib.3. cap. 10. quem librum vir clariſſimus T. D. lingua vernacula eruditiſſime conſcripſit. ſic Errardus Barleduc lib.3.cap.10. ſic Clauius Geom.Practicæ lib.5.cap. 10.

Vt eſto Dolium *BPQDRO* cuius altitudo ſit *ML* partium 21, craſſitudo autem media ſit *BD*, 14. Diameter baſis vel craſſitudo extrema ſit *PQ*, $9\frac{1}{3}$. imprimis quærenda eſt longitudo integræ Sphæroeidis *AC*. quam ſic inveniemus. auferatur *PQ* $9\frac{1}{3}$ è *BD* 14, ſemiſſis reliqui $4\frac{2}{3}$ erit *BS* 2,. *SD* vero erit $11\frac{1}{3}$, & *SV* media proportionalis inter *BS* & *SD*, erit *l*.27$\frac{1}{9}$ per 13.p.6.lib.Eucl.

vel

vel 521749194 77. sunt autem $SV, SP : NX$ (vel NB) NC. proportionales. erit igitur NC *l.* 19845 vel 14087228257 & LC 3587228257. Circulus Diametri PQ 684169066 7819. Cylindrus $FbdQ$ 24542706089. Conus PCQ 818090202 97. Duo segmenta PCQ, OAR 257362836 11, quæ ablata è Sphæroeide, relinquunt Dolium $BPQDRO$. Est autem Circulus Diametri BD 153938040025 9, qui ductus in rectam AC 2817445 6514 facit 433712061456 cylindrum $EFGH$. & totam Sphæroeidem 2891413743 è qua si demantur duo segmenta 2573628361 restabit Dolium 2634050907.

pro-port.	AL	24587228257
	$AL + AN$	38674456514
	Conus	818090202 97
	Segm.	128681418 05

Eandem Dolij capacitatem multo facilius assequemur, ad hunc modum. Quærantur circuli DB crassitudinis mediæ 14, & PQ basis $9\frac{1}{3}$. hos circulos multiplicet altitudo ML 21: facti erunt Cylindri $rKfg$, & $OPQR$. sumatur deinde horum Cylindrorum differentia, huius differentiæ $\frac{1}{3}$ ablata è Cylindro maiore, vel $\frac{2}{3}$ adiectæ Cylindro minori dabunt soliditatem Dolij.

		Logarithmi.
BD Diameter	14	
Quadratum	196	22922 5607
Differentia B auferenda		0104 91012
Circulus BD	1539380400	218734595
PQ	$9\frac{1}{3}$	
Quadratum PQ		19400735532
Differentia B auferenda		0104 9101186
Circulus PQ	6841690667 8	18351634346
Cylindrus ma.	3232698840	
Cylindrus mi.	1436755040	
Differentia	1795943800	
$\frac{1}{3}$ Differentiæ	598647933	
Dolium	2634050907	

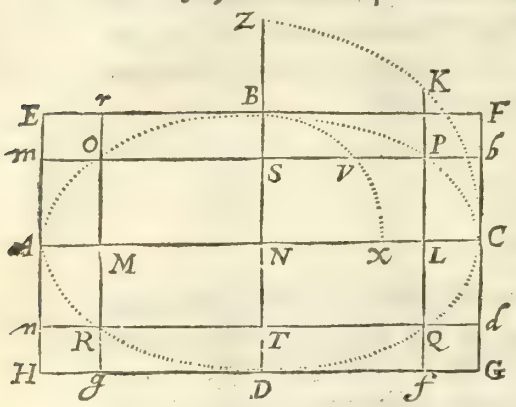
Vel sumatur Circulus PQ, & Elleipsis cuius diametri æquantur summæ rectarum BD, PQ $23\frac{1}{3}$, & duabus tertijs differentiæ earundem $3\frac{1}{9}$: horum summam multiplicet altitudo data ML 21: factus æquabitur Dolio.

		Logarithmi.
Circulus PQ	684169067	
Summa BD, PQ	$23\frac{1}{3}$	13679767853
$\frac{2}{3}$ Differentiæ BD, PQ	$3\frac{1}{9}$	04929155219
Complem. Differentiæ B		98950898814
Elleipsis	570140889	11755982188 6
Circ. + Elleipsi	1254309956	
Dolium	2634050907	

Hoc modo inventa est eadem soliditas quæ antea. Cuius rei ratio hæc est. Differentia Circulorum mediæ crassitudinis BD, & extremæ PQ, æquatur Elleipsi cuius Diametri æquantur summæ & differentiæ Diametrorum BD & PQ. vt ostendi, 2. sect. huius capitis. Ista vero Circulorum concentricorum differentia, est basis Cylindri Concavi, cuius pars tertia sita est inter superficies Cylindri exterioris & Sphæroeidis, reliquæ duæ tertiæ sunt intra Sphæroeidem. Elleipsis idcirco quæ circulo minori adijcitur valet tantum duas tertias illius differentiæ Circulorum BD, PQ (sumebatur enim non integra Diametrorũ differentia, sed tantum $\frac{2}{3}$ eiusdem $3\frac{1}{9}$: quod si totam differentiam & tantum $\frac{2}{3}$ summæ sumpsissem, eadem Elleipsis eveniisset) quæ vnâ cum Circulo

minore multiplicata per datam altitudinem 21, facit eandem quæ prius inventa est soliditatem Dolij.

Esto Dolium *P C Q R A O*, cuius altitudo *O R* $7\frac{2}{3}$ sit minor crassitudine *A C* 20, & sit *O P*, 16. Quæritur huius Dolij capacitas. Summa Diametrorum *A C* + *O P* 36; differentia 4.



Quadratum *O P* 256	2408239965
Differentia *B*	0104910119
Circulus *O P* 201 06192983	2303329846
$\frac{2}{3}$ Summæ Diametrorum 24	1380211242
Differentia Diametrorum 4	0602059991
Compl. Differentiæ *B*	9895089881
Ellipsis 75 39822 35	11877361114
Circulus 201 06192 98	
Basis 2764601533	
Altitudo $7\frac{2}{3}$	
Dolium 1990513104	

Atque his modis metiri poterimus magnitudines harum figurarum, Elleipsis & Sphæroeidis.

5 Si datæ Elleipsi Circulum æqualem construere velimus, quærenda est media proportionalis inter Diametros Elleipsis: Circulus cuius Diameter æquatur mediæ, erit æqualis datæ Elleipsi. Est enim eadem ratio Circuli ad Elleipsim, quæ est Quadrati ad Oblongum. Si Sphæroeidi Sphæram æqualem describere velimus; inveniendæ sunt duæ mediæ continue proportionales, inter altitudinem Sphæroeidis & Diametrum crassitudinis. Sphæra, cuius diameter æquabitur illi mediæ, quæ est crassitudinis diametro propior; erit æqualis datæ Sphæroeidi. nam ita se habet Cubus ad Parallelepipedum quadratæ basis, vt Sphæra ad Sphæroeidem eiusdem cũ Parallelepipedo altitudinis cum Parallelepipedum sit ad Sphæroeidẽ æquealtã, vt Quadrata basis ad $\frac{2}{3}$ Circuli.

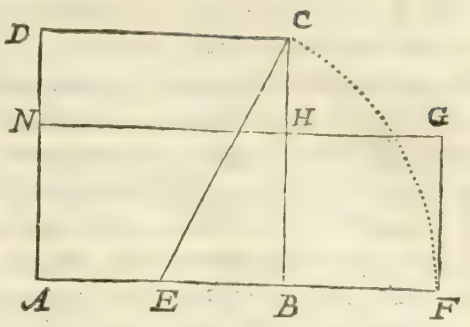
Caput XXVII.

Lineam vel numerum secare secundum mediam & extremam rationem.

Linea recta ad hunc modum secari dicitur apud Euclidem tertia definitione sexti libri, cum eadem fuerit ratio totius ad maius segmentum, quæ est maioris segmenti ad minus. quomodo hæc sectio fieri debeat, ostenditur 11.p.2.lib. & 30.p.6.lib. Euclidis. & Ramus 3.el.14.lib. ostendit quomodo secari possit linea recta Proportionaliter. ita enim breviſſime & non improprie, idem significat quod Euclides pluribus exprimit. Hæc segmenta sunt, tam toti quam inter se asymmetra. & idcirco, si detur numero totius rectæ longitudo, eius segmenta nullo modo numeris absolutis, vel integris vel fractis exprimi poterunt accurate; sed, vt in irrationalibus, poterimus proxime ad partium quæsitarum veras & quæsitas longitudines accedere. poterunt tamen earum longitudines numeris Algebricis accurate definiri, quorum vsus vulgaris vix vllus esse poterit, nisi vsitato more ad absolutos reducantur. vt esto *A B* partium 10, quæ bisecetur in *E*, & ducatur recta *E C* ad angulum quadrati oppositum *C*, & fiant *E C*, *E F* æquales: recta *B F* vel *B H* erit maius & *C H* minus segmentum rectæ *B C* vel *A B* proportionaliter sectæ. Eruntque *B C*, *B H*, *H C* continue proportionales: quia *B G* Quadratum maioris segmenti æquatur rectangulo *D H*, comprehenso à tota & minore segmento. In numeris si

ista

ista exprimere velimus, Quadratum rectæ *E B* est 25, & Quadratum rectæ *B C* 100: erit igitur Quadratum rectæ *E C* vel *E F* 125: cuius nullum latus in numeris dari poterit. erit igitur maius segmentum *B F*, *l.*125—5. & si ad absolutos hunc numerũ reducere voluerimus, erit *l.*125. 1118033988749̄9 fere. à quo si auferatur *E B*, 5: restabit segmentũ maius *B F* 6180339887499 & *C H* minus 3819660112501. Hæ rectæ duorum proximorum additione, vel subductione minoris à maiore, vtrinque continuatæ, quoad visum fuerit; eandem perpetuo servabunt rationem. vt hic vides, in numeris Algebricis accurate, in absolutis vero proxime.



$\frac{11}{2}+l.\frac{125}{4}$	110901699437495 ∴
$\frac{7}{2}+l.\frac{45}{4}$	68541019662497
$2+l.5$	42360679774998 *
$\frac{3}{2}+l.\frac{5}{4}$	26180339887499
$\frac{1}{2}+l.\frac{5}{4}$	16180339887499 §
1	100
$l.\frac{5}{4}-\frac{1}{2}$	6180339887499 §
$\frac{3}{2}-l.\frac{5}{4}$	3819660112501
$l.5-2$	2360679774998 *
$\frac{7}{2}-l.\frac{45}{4}$	1458980337503
$l.\frac{125}{4}-\frac{11}{2}$	901699437495 ∴

Licet autem hi numeri absoluti nonnihil deficiant à vero: poterimus tamen in integris, additione perpetua duorum proximorum, pervenire eo quo volumus fere. cum sumptis duobus quibuscunque pro primis: differentia Quadrati è medio & oblongi comprehensi à primo & tertio, servetur eadẽ vbique per totam seriem; licet ipsi numeri plurimũ augeantur. & idcirco tres quilibet proximi, parum admodum recedunt ab illa quam quærimus proportione. vt

2. 3. 5. Quadratum 9. oblongum 10.
21. 34. 55. Quadratum 1156. oblongum 1155.
55. 89. 144. Quadratum 7921. oblongum 7920.

Huius sectionis magnus est apud Geometras vsus. *Si Radius circuli secetur proportionaliter, maius segmentum est latus Decanguli eidem circulo inscripti.* 8. e. 18. Rami. & *Latus Quinquanguli est maius segmentum subtendentis duo latera Quinquanguli.* & si Dodecahedrum & Icosahedrum inscribantur Cubo: *Latus Dodecahedri est minus segmentum, Latus Icosahedri maius segmentum Lateris Cubici.*

1
2
3
5
8
13
21
34
55
89
144

Rationis extremæ & mediæ		Logarithmi.
Termini	1000000000000000	1000
	6180339887498̄94	0791012359750̄2
Differentia Logarith. - - -		0208987640249̄98

Si numeri cuiuscunque dati proportionaliter secti, maius segmentum scire cupias; è dati numeri Logarithmo, auferatur Differentia rationis extremæ & mediæ: reliquus erit Logarithmus segmenti maioris. vt esto datus numerus 55.

	Logarithmi.
Datus 55	1740362689494̄24
Diff. extremæ & mediæ rationis	0208987640249̄98
3399186938̄12442	1531375049244̄26

maius segmentum erit 34 fere.

Et ſi terminum aliquem remotiorem in ſerie continue proportionalium, ſive maiorem dato ſive minorem ſcire velimus; multiplicetur differentia dicta, per numerum intervallorum, inter datum numerum & quęſitum; factus, dati numeri Logarithmo additus, dabit numeri quęſiti maioris Logarithmũ. idem ablatus relinquet Logarithmum minoris. vt eſto Datus 55 & quęratur tertius à dato maior, Differentia triplicata erit 062696292074994; qui dati Logarithmo additus, dat 2367325610244l8, Logarithmum numeri 2329837387624 4: idem à dato ablatus, relinquit 1113399768744 30, cui reſpondet 1298373876249. hac de re conſule cap. 17.

In his numeris, & omnino in omnibus (integris, vel partibus: abſolutis, vel Algebricis) qui ex continua duorum proximorum additione proveniunt; ſi ſumantur quotlibet proximi, quorum numerus eſt impar, & ratio ad quaternarium ſuperparticularis, vt quinque, novem, tredecim, extremorum Summa; in reliquis, vt ſeptem, vndecim, quindecim, Differentia, erit multiplex medij.

Caput XXVIII.

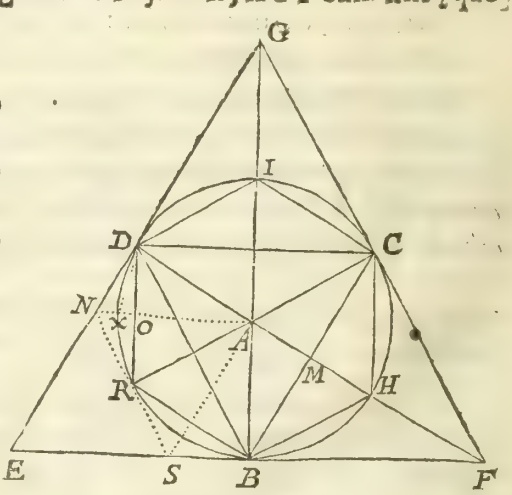
Data Diametro Circuli, invenire Latera & Areas ordinatorum Trianguli, Quadrati, Quinquanguli, Sexanguli, Octanguli, Decanguli, Dodecanguli, Sedecanguli, eidem circulo inſcriptorum, & circumſcriptorum.

Lemma.

IN figuris ordinatis circulo adſcriptis. *Si duæ figuræ homogeneæ circulo adſcribantur, vna intus, reliqua extra: tertia, cuius latera ſunt numero æqualia lateribus reliquorum ſimul ſumptis, eidem circulo inſcripta, erit media proportionalis inter reliquas.*

Sunto duo Triangula DCB, GEF eidem circulo adſcripta, cui inſcribatur Sexangulum $DICHBR$: aio Sexangulum eſſe medium proportionale inter Triangula adſcripta.

Sunt enim Triangula ACM, ACF ſimilia: & AM, AC (vel AH) AF continue proportionalia. & idcirco Triangula ACM, ACH, ACF cum ſint æqualta, ſunt vt baſes: id eſt ſunt continue proportionalia, vt ipſæ baſes; & Figuræ, horũ Triangulorũ Sextuplæ, ſunt etiam continue proportionales. Eſto AD radius circuli 1. erit BC Latus triãguli inſcripti $l.3$. per 12. p. 13. l. Eucl. Perimeter Trianguli $l.27$. ſemiperimeter $l.6\frac{3}{4}$. $AM\frac{1}{2}$. Area trianguli $l.\frac{27}{16}$. $AO\ l.\frac{3}{4}$. $DR.1$. Triangulum $DAR\ l.\frac{3}{16}$. Sexangulum $DICHBR\ l.\frac{27}{4}$. $EF\ l.12$. $AB, 1$. $EAF\ l.3$. $EGF, l.27$.

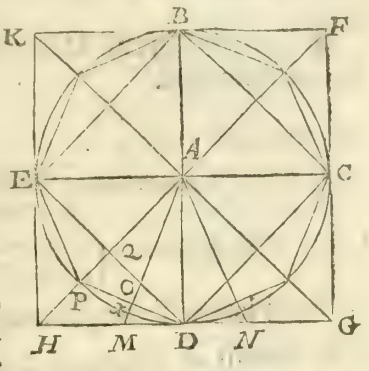


Latus Sexanguli inſcripti $DR, 1$. Circumſcripti latus $NS\ l.\frac{4}{3}$. Sunt enim $AO\ l.\frac{3}{4}$. $DR, 1$. $AR, 1$. $NS, l.\frac{4}{3}$ proportionales. & Triangulum $ANS\ l.\frac{1}{3}$. & Sexangulum circumſcriptum $l.12$. Dodecangulum autem inſcriptum eſt 3. eſt enim $XO\ 1 - l.\frac{1}{4}$. & Qu. $XO\ 1\frac{1}{4} - l.3$. & Qu. $DO\ \frac{1}{4}$. eſt igitur Qu. $DX\ 2 - l.3$. & Qu. ſemiſſis rectæ $DX\ \frac{1}{2} - l.\frac{3}{16}$. & Quad. perpendicularis à puncto A in rectam DX. eſt $\frac{1}{2} + l.\frac{3}{16}$. Triangulum igitur $ADX\ l.\frac{1}{16}$ vel $\frac{1}{4}$, & totum Dodecangulum inſcriptum eſt 3. Quod eſt medium

medium proportionale inter Sexangulum inſcriptum $l.\frac{3}{4}$, & Sexangulum circumſcriptum $l.12$.

Quadrati $BCDE$ inſcripti Latus $l.2$. Area 2, Circumſcripti $FGHK$. Latus 2. Area 4.

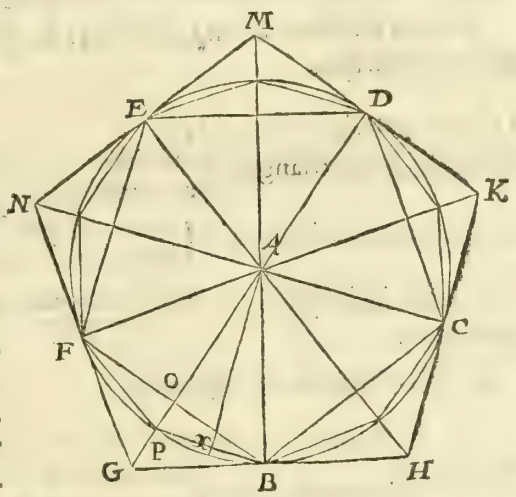
Octanguli inſcripti Latus, DP, $l.$bin.$2-l.2$. (eſt enim AQ $l.\frac{1}{2}$. PQ $1-l.\frac{1}{2}$. & Qu. PQ $1\frac{1}{2}-l.2$. Qu. DQ $\frac{1}{2}$, idcirco Qu. DP $2-l.2$.) Qu. DO ($\frac{1}{4}$. Qu. DP) erit $\frac{1}{2}-l.\frac{1}{8}$. quo ablato è quadrato Radij AD 1, reſtabit Qu. AO $\frac{1}{2}+l.\frac{1}{8}$. & factus à recta AO $l.$bin.$\frac{1}{2}+l.\frac{1}{8}$. in OD $l.$bin.$\frac{1}{2}-l.\frac{1}{8}$ erit $l.\frac{1}{8}$ Area trianguli ADP. & Octangulum inſcriptum erit $l.8$. Quod mediũ eſt proportionale inter Quadratum inſcriptum 2, & Quadratum circumſcriptum 4.



Octanguli circumſcripti Latus MN, $l.8-2$. (quia HA, HN æquantur, & idcirco DN eſt $l.2-1$. & NM dupla eiuſdem, $l.8-2$. Quod autem HA, HN æquantur, patet per 5. pro. 1. lib. Eucl. quia HAN valet $\frac{1}{4}$ recti ex fabrica, & HNA æquatur angulis NGA, NAG per 32. pr. lib. 1. Eucl.) AD radius 1. factus à radio 1 in DN $l.2-1$, eſt $l.2-1$ æqualis Areæ Trianguli AMN, cuius octuplum $l.128-8$ æquatur Octangulo circumſcripto.

Sedecanguli inſcripti Latus eſt $l.$bin.$2-l.$bin.$2+l.2$.

Latus inſcripti Quinquanguli $l.$bin.$\frac{5}{2}-l.\frac{5}{4}$. perpendicularis à centro in Latus $\frac{1}{4}+l.\frac{5}{16}$. factus ab hac perpendiculari in ſemiſſem lateris Quinquanguli $l.$bin.$\frac{5}{8}-l.\frac{5}{64}$, erit triangulum ABC, $l.$bin.$\frac{5}{32}+l.\frac{5}{1024}$, & Area totius inſcripti Quinquanguli $l.$bin.$\frac{125}{32}+l.\frac{3125}{1024}$. Latus Quinquanguli circumſcripti, erit $l.$bin.$20-l.320$. factus à Radio in ſemiſſem huius lateris erit $l.$bin.$5-l.20$ triangulum AGH. & totum Quinquangulum circumſcriptum $l.$bin.$125-l.12500$.



Latus Decanguli inſcripti BP $l.\frac{5}{4}-\frac{1}{2}$, cuius quadratum $\frac{3}{2}-l.\frac{5}{4}$. Quadratum rectæ BX $\frac{3}{8}-l.\frac{5}{64}$, & Qu. AX $\frac{5}{8}+l.\frac{5}{64}$, area Trianguli ABP $l.$bin.$\frac{5}{32}-\frac{5}{1024}$, & totũ Decangulum $l.$bin.$\frac{125}{8}-l.\frac{3125}{64}$, quod proportione medium eſt inter Quinquangula inſcriptum & circumſcriptum.

Si Circulo cuius diameter data vel quæſita fuerit, harum figurarum aliquam adſcribere velimus: inprimis quęrendæ ſunt Logarithmorum vncuique figuræ convenientium Differentiæ. quas vbi exhibuero, reliqua qua potero brevitate expediam. Pro Circulo & Triangulo.

		Logarithmi.
Termini: Diameter circuli - - - - - 2		0,30102,99956,6398
Termini: Latus Trianguli inſcripti *l.*3		0,23856,06273,5983
Termini: Latus Trianguli circũſcripti *l.*12		0,53959,06230,2381
Differentia Logarith. pro Triangulo inſcripto		0,06246,93683,0415
Differentia Logarith. pro Triangulo circumſcripto		0,23856,06273,5983

		Logarithmi.
Termini: Peripheria Circuli 6283185307 18		0,79817,98683,5500
Termini: Perimeter Trianguli inſcripti *l.*27		0,71568,18820,7949
Termini: Perimeter Trianguli circũſcripti *l.*108		1,01671,18777,4347

Diffe-

Differentia Logarithm. pro Triangulo { inscripto		0,08249 79862,7551
{ circumscripto		0,21853,20093,8847

			Logarithmi.
Termini { Area Circuli 3141592653 59			0,49714,98726,9102
{ Area Trianguli { inscripti *l.* 27/16			0,11362,18907 ‹153
{ circumscripti *l.* 27			0,71568,18820,7949
Differentia Logarithm. pro Triangulo { inscripto			0,38352,79819 3949
{ circumscripto			0,21853,26093,8847

Si Data sit Circuli Diameter 9, & quærantur latera Triangulorum inscripti & circumscripti.

	Logarithmi.	
Logarith. Diametri 9 - - - - - -	095424251	
Differentiæ pro lateribus { inscripti	006246937	
{ circumscripti	023856063	
Latera Triangulorum { inscripti	089177314	7794228
{ circumscripti	119280314	15588457

Erunt latera Triangulorum inscripti 7794228, circumscripti 15588457.

Si datum sit Trianguli Latus 6: & quærantur Diametri circulorum inscripti & circumscripti.

	Logarithmi.	
Logarithmus Lateris dati 6	077815125	
Differentiæ pro triangulo { circumscripto	023856063	
{ inscripto	006246937	
Logarith. pro Diametro { circumscripti	084062062	6928406
{ inscripti	053959062	3464203

Erunt diametri circulorum inscripti 3464203, circumscripti 6928406.

Si data sit Area trianguli *l.* 243: & quærantur Areæ circulorum inscripti & circumscripti.

	Logarithmi.	
Logarithmus Areæ datæ *l.* 243	119280313	
Differentiæ pro triangulo { inscripto	038352798	
{ circumscripto	021853201	
Logar. pro Areis circulorum { circumscripti	157633111	37699112
{ inscripti	097427112	9424778

Circuli inscripti Area erit 9424778 : circumscripti, (quadrupla inscripti) 37699112.

2. Pro Circulo & Quadrato.

			Logarithmi.
Termini { Diameter circuli 2			0,30102,99956,6398
{ Latera Quadrati { inscripti *l.* 2			0,15051,49978,3199
{ circumscripti 2			0,30102,99956 6398
Differentia Logarith. pro La- { inscripti			0,15051,49978,3199
tere Quadrati { circumscripti			0,00000,00000,0000

			Logarithmi.
Termini { Peripheria circuli 6283585307 18			0,79817,98683,5500
{ Perimeter Quadrati { inscripti *l.* 32			0,75257 49891,5995
{ circumscripti 8			0,90308,99869,9194
Differentia Logarith. pro Perime- { inscripti			0,04560,48791,9505
tro Quadratri { circumscripti			0,10491,01186,3694

			Logarithmi.
Termini { Area Circuli 3141592653 59			0,49714,98726,9102
{ Area Quadrati { inscripti 2			0,30102 99956,6398
{ circumscripti 4			0,60205,99913,2796
Differentia Logarith. pro Area { inscripti			0,19611,98770,2704
Quadrati { circumscripti			0,10491,01186,3694

Si

Pro Circulo, et adscriptis Multangulis Ordinatis.

			Logarithmi.
Circuli	Diameter	2	0,30102,9995
	Peripheria	6283585307	0,79817,9868
	Area	3141792654	0,49714,9873
Quinquanguli	Latus inscripti	*l.* bin $\frac{5}{2}$ — $l\frac{5}{4}$. 1175570504	0,07024,8681
	Latus circūscripti	*l.* bin 20, — *l* 320. 1453035056	0,16229,1036
	Perimeter inscripti	*l* bin $62\frac{1}{2}$ — $l\,781\frac{1}{4}$. 5877852523	0,76921,8685
	Perimeter circūscripti	*l* bin 500 — *l* 200000. 7265425280	0,86126,1040
	Area inscripti	*l* bin $\frac{125}{3}$ + $l\frac{3125}{12}$ 2327641290	0,37614,6310
	Area circūscripti	*l* bin 125 — *l* 12500 3632711264	0,56023,1045
Sexanguli	Latus inscripti	1	0,00000,0000
	Latus circūscripti	*l* $\frac{1}{3}$. 1154700538.	00,62469,368
	Perimeter inscripti	6	0,77815,1250
	Perimeter circūscripti	*l* 48. 6928203230	0,84062,0618
	Area inscripti	— *l* $\frac{1}{4}$. 2598076211	0,41465,1886
	Area Dodecanguli inscripti	3	0,47712,1255
	Area circumscripti	. . . . . *l* 12. 3464101615	0,53959,0623
Octanguli	Latus inscripti	*l* bin 2 — *l* 2 7653668647	— 0,11613,0343
	Latus circumscripti	*l* 8 — 2 82842712	— 0,08174,5690
	Perimeter inscripti	*l* bin 128 — *l* 8192. 6122934918	0,78695,9644
	Perimeter circumscripti	*l* 512 — 16 662741696	0,82134,4298
	Area inscripti	— *l* 8. 2828427125	0,45154,4993
	Area Sedecanguli inscripti	*l* bin 32 — *l* 512 3061467465	0,48352,9647
	Area circumscripti.	*l* 128 — 8.. 3313708505	0,52031,4302
Decanguli	Latus inscripti	*l* $\frac{5}{4}$ — $\frac{1}{2}$ 6180339887	— 0,20898,764
	Latus circūscripti	*l* bin 4 — *l* $64\frac{4}{5}$ 6498393925	— 0,18719,397
	Perimeter inscripti	*l* 125 — 5 6180339887	0,79101,236
	Perimeter circūscripti	*l* bin 400 — *l* 128000. 6498393925	0,81280,603
	Area inscripti	*l* bin $\frac{125}{8}$ — *l* $\frac{3125}{64}$ 2938926261	0,46818,869
	Area 20 anguli inscr.	*ll* bin $\frac{4375}{2}$ — *l* 17578125 3090169944	0,48998,236
	Area circūscripti	*l* bin 100 — *l* 8000. 4 3249196962	0,51177,603
Dodecanguli	Latus inscripti	*l* bin 2 — *l* 3 5176380902	— 0,28597,3773
	Latus circumscripti	4 — *l* 12 5358983849	— 0,27091,7552
	Perimeter inscripti	*l* bin 288 — *l* 62208. 6211657082	0,79320 7472
	Perimeter circūscripti	48 — *l* 1728 6430780618	0,808263,694
	Area inscripti	- - - - - - - - - - - - 3 - - - - - - -	0,47712,1255
	Area 24 anguli inscrip.	*l* bin 72 — *l* 3888. 3105828541	0,49217,7477
	Area circūscripti.	24 — *l* 432 - - - - 3215300300	0,50723,3699
			0,50723,3699

His Logarithmis inventis, si proposita harum figurarum qualibet, detur eius latus vel perimeter vel area; poterimus alterius cuiusvis harum, quemlibet terminum invenire. Quod in triangulo ostendimus fusius, idem unico aut altero exemplo in reliquis deinceps ostendemus.

Esto datum latus Octanguli ordinati partium 7. quærantur Latus, Perimeter et Area Quinquanguli, eidem circulo cum Octangulo inscripti.

Latus quæsitum sic invenietur.

In circulo cuius Radius est unitas, latus inscripti Octanguli est 7653668647. Latus autem Quinquanguli est 1175570504. et si latus Octanguli sumatur partium 7, erit latus Quinquanguli quæsitum, quartum proportionale. sunt igitur sumendi Logarithmi datorum terminorum, ut (per cap. 15) inveniatur Logarithmus termini quæsiti

		Logarithmi.
pro-port	Latus Octanguli datum 7653668647.	—— 011613034
	Latus Octanguli sumptum 7	------- 084509804
	Latus Quinquanguli datū 1175570504	--- 007024868
	Latus Quinquāguli quæsitū 107516982	--- 103147706

Vbi animaduertendum, Logarithmum primi termini (cum is sit minor unitate) esse defectivum, ut cap. 10. ostendimus, atq; eâ de causa, non esse auferendum e summa mediorum, sed addendum potius: eritque Logarithmus quartus 103147706, et latus quæsitum 107516982.

Hoc latus, si neglectis Logarithmis per proportionis regulam quæratur, erit latus Quadrinomij $122\frac{1}{2} + l\,7503\frac{1}{8} - l\,3001\frac{1}{4} - l\,1500\frac{5}{8}$

Eodem modo inveniri poterit perimeter Quinquāguli, si pro tertio termino sumatur perimeter dati Quinquanguli, eiusq, logarithmus. vt

			Logarithmi.
pro-port	Latus Octanguli datum	7653668467--	—011613034
	Latus Octanguli sumptum	7 -------- ----	084509804
	Perimeter Quinquanguli data	5877852523 ----	076921861
	Perimeter Quinquanguli quæsita	537758491 -----	173044706

Si quæramus Aream Quinquanguli, cum nihil aliud sit datum præter latus Octanguli eidem circulo inscripti: meminisse debemus, figuras similes planas, esse in duplicata ratione homologorum laterum: et idcirco laterum Octanguli quadrata esse sumenda, vt rite institui possit comparatio. Veruntamen, in hoc negotio, non opus erit, vt de ipsis quadratis simus solliciti, modo eorum Logarithmos, quod per cap 16 facillimum erit, habuerimns. vt hic vides.

			Logarithmi.
pro-port	Quadratum lateris Octanguli data	2—12 ----- ——	0232260686
	Quadratum lateris sumpti	49 -------	1690196080
	Area Quinquanguli dati	$l.\,\text{bin}\,{}^{25}_{32} + l.\,\frac{3125}{1024}$ ------	0376146310
	Area Quinquanguli quæsita	19888 54794 ---	2298603076

Si Area dati Decanguli sit 6, et quæratur latus Octanguli circumscripti eidem circulo, cui Decangulum inscribitur: erunt.

			Logarithmi.
pro-port	Area decanguli dati	293892626 --------	046818869
	Area Decanguli sumpta	6 ----------	077815125
	Quadratum lateris Octanguli circumscripti dati	——	016349138
	aggregatum mediorum		061465987
	Quadratum lateris Octanguli circumscripti quæsiti		014647118
	Latus quæsitum -- 118368622	-------	007323559

Atque ad hunc modum in circulo, et in his figuris eidem circulo adscriptis, ex vnico termino dato, poterit alius quilibet per Logarithmos inueniri.

Caput XXIX.

De Septangulo, Nonangulo, Quindecangulo, et multangulis laterum 24 et 30.

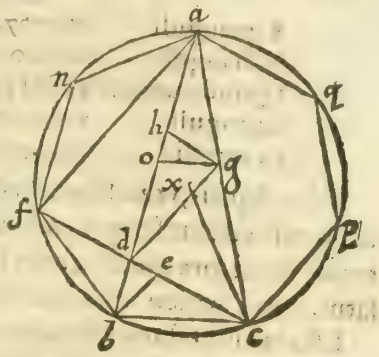
SVperioribus figuris poterunt et hæ subsequentes non incommode adiungi. sed cum earum quedam sint paulo magis operosæ, contenti erimus earum latera tantum indicasse: cum ex illis quæ hic traduntur, reliqua etiam suppleri possint ab ijs, qui ista scrupulosius indagare voluerint.

Si e quatuor rectis continue proportionalibus, maxima et minima æquentur mediæ maiori duplicatæ, et mediæ minori: Trianguli crurum maximæ æqualium, basis maiori mediæ æqualis, vterque angulus ad basim erit triplus rel qui. Et basis erit latus septanguli in circulum cum triangulo inscripti.

Esto

Esto *A N F B C P Q* septangulum ordinatum circulo inscriptum; et sint *A B*, *B C*, *B D*, *D E* vel *H O* continue proportionales: erunt *A E* et *H O* æquales rectis *A O*, *H D*, *B D*: id est mediæ maiori *B C* duplicatæ, et mediæ minori *B D*. Sunt enim triangula *B A C*, *B C D* æquiangula. et idcirco *B C*, *C D*; item *A F*, *A D*, *F C* æquales: et si fiant anguli *G A D G D A* æquales, erunt triangula *A G D*, *F B G* æquilatera; et *H O*, *D E* æquales. Ponatur *A B*, 1. erit *B C*, 1 (1) : *B D*, 1 (2) : *D E*, 1 (3). eruntque 1 + 1 (3), et 2 (1) + 1 (2) æquales.

cont	*A B*	1000000000000	
cont	*B C* - -	445041867913	1 (1)
prop	*B D* - -	198062264195	1 (2)
prop	*D E* - -	88146000021	1 (3)
	F C - -	801937735805	
	F D - -	356805867892	

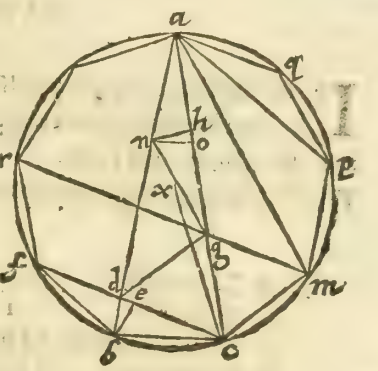


	X C - -	1000000000000
cont	*A B*	1949855824364
cont	*B C* - - -	867767478235
prop	*B D*	386192859428
prop	*D E* - -	171871991534

Si Radius circuli circumscripti *X C* ponatur 1 : erit
B C latus septanguli 867767478235
C F subtendens duo latera erit 1563662964936
A B subtendens tria latera erit 1949855824364

Si e[illegible]or rectis continue proportionalibus, maxima et minima æquentur med[illegible]maiori triplicatæ : Trianguli crurum maximæ æqualium, basis mediæ maiori æqualis, vterque angulus ad basim est quadruplus reliqui : et basis erit latus Nonanguli in circulum cum triangulo inscripti.

Esto *A P C B R* Nonangulum et sint *A B*, *B C*, *B D*, *D E* cõtinue proportionales, erunt *A C* et *H O*, æquales rectis *A O*, *H G*, *G C* : id est rectæ *B C* triplicatæ. Sunt enim *B A C*, *B C D* æquiangula; et idcirco *BC*, *CD* æquantur. et si ducatur *R M* parallela rectæ *F C*, erunt anguli *F C G*, *C G M* æquales; quibus etiam æquantur *G M C*, *G C M*; quia peripheriæ in quas insistunt, *A P M*, *A R F*, *R B C* sunt æquales. Sunt igitur *G C*, *G M*, *C M* æquales. et ducta recta *A M*, erunt triangula *A M G*, *A M P* æquiangula, et æquilatera. Et triangula *A Q P*, *A N G*, *F B C* æquilatera : et rectæ *A O*, *H G*, *C B* item *H O*, *D E* æquales.



Ponatur *A B*, 1. *B C*, 1 (1). *B D*, 1 (2). *D E*, 1 (3). erunt 3 (2) et 1 + 1 (3) æqualia

	A B	1000000000000	
1 (1)	*B C*	347299355334	cont
1 (2)	*B D*	120614758428	prop
1 (3)	*D E*	41889066002	prop
	C F	652793644666	
	A M	876385241572	

Si *X C* Radius circuli circumscripti sit 1. erit *B C* 684040286651 3
C F subtendens duo latera - - - - - - - - 1285575219373 2
A M subtendens tria latera 1732050807568 8

	X C - -	100000000000	
	A B - -	1969615506045	
	B C - - -	684040286651 3	cont
	B D - - -	237564698455 7	prop
	D E - - -	82505353929 4	prop

Latus Quindecanguli inſcripti circulo cuius radius eſt 1, eſt latus trinomij $\frac{2}{4} - l\frac{5}{16} - l$ bin $\frac{15}{8} - l\frac{45}{64}$. cui æquatur ſubtenſa 24 graduum 41582338164

Latus multanguli laterum 24, eſt l bin $2 - l$ bin $2 + l\,3$. Vel l bin $\frac{1}{2} + l\frac{1}{8} - l$ bin $\frac{3}{2} - l\frac{9}{1}$. Vel l trin $2 - l\frac{1}{2} - l\frac{1}{2}$. cui æquatur ſubtenſa 15 graduum 26105238444.

Latus multanguli laterum 30. eſt l bin $\frac{5}{8} - l\frac{45}{64} - l\frac{5}{16} - \frac{1}{4}$. Vel l trin $\frac{3}{4} - l\frac{5}{16} - l$ bin $\frac{15}{8} + l\frac{45}{64}$. cui æquatur ſubtenſa 12 graduum 20905692653 53.

	Latera	Logarithmi.
Septanguli	867767478235	— 0061596630
Nonanguli	684040 1866513	— 0164918320
Quindecanguli	41582338164	— 0381091094
24 anguli	26105238444	— 0583272335
30 anguli	20905692653 53	— 0679735439

In his figuris, vt in ſuperioribus, poterunt latera inueniri, ſi datus fuerit radius circuli circumſcripti, vel latus cuiuſcumque multanguli (ex ijs quę hoc capite vel ſuperiore continentur) eidem circulo inſcripti cum eo, cuius quęritur latus. qnod vnico exemplo oſtendiſſe ſufficiet.

Eſto latus Octanguli datum 6: quęritur latus quindecanguli, eidem circulo cum dato Octangulo inſcripti.

		Logarithmi.
pro-	Latus Octanguli datum	7653668647 — 0,11613,034
port	Latus Octanguli ſumptum	6 - - - - - - 0,77815,125
	Latus Quindecanguli datum	41582338164 — 0,38109,109
	aggregatum mediorum	- - - - - - - 0,39706,016
	Latus Quindecanguli quæſitum	325979658 - 0,51319,050

Caput XXX.

De Figuris Ordinatis Iſoperimetris.

IN huiuſmodi figuris; quo plura ſunt latera, eo maior eſt Area: quę ſemper æquatur Rectangulo comprehenſo a ſemiperimetro multanguli, et Radio circuli eidem inſcripti.

Eſto Perimeter figurarum ordinatarũ iſoperimetrarum ſubſequentiũ 4: erunt.

	Areæ	Arearum Logarithmi.
A Trianguli	$l\frac{48}{81}$ - - - - - - - vel	7698003589 — 0,11362,1890
B Quadrati	1	0,00000,0000
C Quinquanguli	l bin $\frac{16}{25} + l\frac{1024}{3125}$ vel	11011055364 0,04182,8946
D Sexanguli	$l\frac{4}{3}$ - - - - - - - vel	11547005384 0,06246,9368
E Septanguli	- - - - - - - - -	11865836552 0,07429,8362
F Octanguli	l bin $\frac{3}{4} + l\frac{1}{2}$ - - vel	12071067812 0,08174,5690
G Nonanguli	- - - - - - - - -	12211010752 0,08675,1614
H Decanguli	l bin $\frac{4}{5} + l\frac{64}{125}$ - vel	12310734148 0,09028,3953
I Dodecanguli	$\frac{1}{3} + l\frac{8}{3}$ - - - - vel	12440169358 0,09482,6293
K Circuli	- - - - - - - - -	12732395447 0,10491,0119

Si e duabus figuris huiuſmodi, alterius area data fuerit: reliquę etiam nota erit, per hos Logarithmos, ad hunc modum. Eſto Datum Quadratum, cuius area ſit 49: cupio ſcire Aream Decanguli iſoperimetri quadrato. Sumatur differentia Logarithmorum Quadrati et decanguli hic poſitorum, ea addatur Logarithmo dati quadrati, totus erit Logarithmus quęſiti Decanguli. vt

	Logarithmi
Logarithmus dati Quadrati 49:	1,69019,6080
Differentia Logarithmorum Quadrati et Decanguli-	- 0,09028,3953
Area decanguli cuius perimeter eſt 28. 603225973.	1,78048,0033

Si Trianguli area data sit partium 49; et quęratur area Decanguli; pro differentia Logarithmorum, sumi debet summa, (quia trianguli Logarithmus est defectiuus) 0,20390,5843. quę adiecta Logarithmo 49 dato, dat Logarithmum quæsiti Decanguli 1,89410,1923.

Vel per cap. 15.

		Logarithmi.
propo-rt	*A.* Trianguli - - - - - - - - - -	—0,11362,1890
	H. Decanguli - - - - - - - - - -	0,09028,3953
	Trianguli dati 49 - - - - - - - - -	1,69019,6080
	aggregatum mediorum	1,78048,0033
	Decanguli quæsiti 78361525 - - -	1,89410,2023

Postquam data vel inuenta fuerit area polygoni: si latus vel perimetrum eiusdem scire desideres, consulere debes Cap 28.

Et, si semiperimeter aream diuiserit: quotus erit radius circuli inscripti.

Caput. XXXI.

De Figuris Ordinatis æqualibus.

IN Figuris heterogeneis Ordinatis ęqualibus, nulla vnquam esse potest laterũ ęqualitas. Veruneamẽ, quę semel deprehensa fuerit, in duabus ęqualibus, laterũ ratio; eadem in æqualibus eorundẽ generũ, semper seruabitur. Et contra: si eadem seruetur laterum ratio, ipsæ figurę erunt æquales.

Si area Ordinatæ cuiuslibet figuræ infra positæ sit 4: erit latus,

	Latera		Logarithmi Laterum.
A. Trianguli,	*ll.* $85\frac{1}{3}$	vel 303934274	0,48277,9678
B. Quadrati,	2	2	0,30102,9996
C. Quinquanguli	*ll* bin $51\frac{1}{3} \square l 2097\frac{19}{125}$	vel 1524774111	0,18320,5509
D. Sexanguli	*ll* $\frac{64}{27}$	vel 1240806479	0,09370,4052
E. Septanguli,		1049162516	0,02084,2766
F. Octanguli,	*ll* bin 12 — *l* 128	vel 9101797211	—0,04087,2845
G. Nonanguli,		8043992754	—0,09452,8329
H. Decanguli,	*ll* bin 256 — 5 24288	vel 7210211605	—0,14205,1989
I. Dodecanguli,	*l* bin $2\frac{2}{3} - l 5\frac{1}{3}$	5977169814	—0,22350,4405
K. Diameter Circuli erit	- - - - - - -	2256758342	0,35348,5055

Horum Logarithmorum adiumento poterimus: Dato cuiuscunque (superius positę) figuræ latere; alterius, datę prorsus æqualis, latus inuenire. Vt esto latus Sexanguli datum partium 5; cupio inuenire latus Dodecanguli, Sexangulo æqualis.

Differentia Logarithmorum lateribus Sexanguli et Dodecanguli conuenientium, auferatur e Logarithmo quinarij; reliquus erit Logarithmus lateris quæsiti.

Vel per Cap. 15.

		Logarithmi.
propo-rt	*D.* Lateris Sexanguli - - - - - - - - - - -	0,09370,4052
	I. Lateris Dodecanguli - - - - - - - - - -	—0,22350,4405
	Lateris Sexanguli dati 5 - - - - - - - - - -	0,69897,0004
	aggregatum mediorum - - - - - -	0,47546,5599
	Lateris Dodecanguli quæsiti 2408583614 - - - -	0,38176,1547

Si aream Sexanguli, cuius latus datur partium 5; vel Dodecanguli, cuius
1. latus inuenitur partium 2408582914 scire velimus: Vel consulendum est cap 28: sumpto lateris Logarithmo duplicato.

Vt pro Sexangulo. per cap. 28.

		Logarithmi.
pro-port	Quadrati è latere circumscripti Sexanguli	0,12493,8736
	Areæ circumscripti Sexanguli	0,53959,0623
	Quadrati è latere Sexanguli dato. 5.	1,39794,0008
	aggregatum mediorum	1,93753,0631
	Areæ Sexanguli cuius latus 5 — 649519052	1,81259,1895

Eodem modo pro Dodecangulo.

pro-port	Qudarati è latere inscripti Dodecanguli	0,57194,7546
	Areæ inscripti Dodecanguli	0,47712,1255
	Quadrati è latere Dodecanguli inuento	0,76352,3094
	aggregatum mediorum	1,24064,4349
	Areæ Dodecanguli cuius latus 2408582614	1,81259,1895

Æqualitas harum figurarum deprehenditur ex æqualitate Logarithmorum.

Vel per Logarithmos huius capitis quærendum est latus Quadrati, eidem
2. Sexangulo æqualis. Vt

		Logarithmi.
pro-port	*D.* Lateris Sexanguli. Compl. Arithm.	9,90629,5948
	B. Lateris Quadrati	0,30102,9996
	Lateris Sexanguli dati 5	0,69897,0004
	Lateris Quadrati quæsiti	10,90629,5948
	Ipsius quadrati	1,81259,1896

Habemus igitur areas harum trium figurarum Sexanguli, Dodecanguli et Quadrati, omni modo prorsus æquales 649519053

Caput XXXII.

De Sphæra, et quinque corporibus Ordinatis eidem inscriptis; Tetraedro, Octaedro, Cubo, Icosaedro, Dodecaedro.

Logarithmorum vsum in figuris planis, superioribus capitibus ostendimus: eundem etiam, hoc capite, in figuris solidis ostendemus.

Hæc quinque corpora Ordinata componuntur e pyramidibus, æqualibus, et æquęaltis: quarum bases extra apparent, vertices autem intus in centro concurrunt. Harum altitudines æquantur perpendicularibus a centro corporis, in centrum basis; vel radio Sphærę eidem corpori inscriptę.

Si altitudo pyramidis ducatur in trientem basis, factus erit soliditas eiusdem. et idcirco factus a radio Sphærę inscriptę, in trientem superficiei corporis cuiusuis ordinati, æquabitur soliditati eiusdem corporis.

Si hæc quinque corpora eidem sphærę inscribantur, idem circulus circumscribetur Triangulo Icosaedri, et Quinquangulo Dodecaedri. item Triangulo Octaedri, et Cubi Quadrato.

Nam; si hedræ vnius, numero æquentur solidis angulis alterius; idem circulus circumscribetur hedris vtriusque: et ipsa corpora sunt suis superficiebus proportionalia.

Estque Tetraedrum ad Cubum; vt latus trianguli æquilateri ad diamerum circuli circumscripti. Icosaedrum autem ad Dodecaedrum; vt latus Icosaedri, ad latus cubi eidem sphærę inscripti: vel vt latus Trianguli æquilateri ad subtendentem duo latera Quinquanguli-

			Logarithmi.
A R.	Si Radius Sphæræ sit vnitas, erit	- - - - - - - - - - -	000000000
A.	Peripheria circuli maximi	6283185307 18 - -	0798179869
B.	Area maximi circuli	3141592653 29 - -	0497149873
C.	Superficies Sphæræ	12566370613 16 - -	1099209864
D.	Soliditas Sphæræ	4188790204 39 - -	0622088610

Si huic Sphærę corpora Ordinata inscribantur : erit

E.	Tetraedri	Latus $l\frac{8}{3}$	1632993161 8 - -	0212984366
F.		Basis $l\frac{4}{3}$	1154700538 4 - -	0062469368
G.		Radius circuli triangulo circumscripti $l\frac{8}{9}$	942809041 6 —	0025576261
H.		Superficies $l\frac{64}{3}$	4618802153 6 - -	0664529350
I.		Radius Sphæræ inscriptæ $\frac{1}{3}$	3333333333 —	0477121255
K.		Soliditas $l\frac{64}{243}$	5132002393 —	0289713150

L.	Octaedri	Latus $l2$	1414213562 4 - -	0150514998
M.		Basis $l\frac{3}{4}$	866025404 —	0062469368
MS.		Radius circuli Triāgulo circumscripti $l\frac{2}{3}$	8164965809 —	0088045629
N.		Superficies $l48$	6928203230 - -	0840620619
O.		Radius Sphæræ inscriptæ $l\frac{1}{3}$	5773502692 —	0238560627
P.		Soliditas $\frac{1}{5}$	1333333333 - -	0124938737

Q.	Cubi	Latus $l\frac{4}{3}$	1154700538 4 - -	0062469368
R.		Basis $\frac{4}{3}$	1333333333 - -	0124938737
S.		Radius circuli quadrato circumscripti $l\frac{2}{3}$	8164965809 —	0088045629
T.		Superficies 8	8 - - - - - - - -	0903089987
V.		Radius Sphæræ inscriptæ $l\frac{1}{3}$	5773502692 —	0238560627
X.		Soliditas $l\frac{64}{27}$	1539600717 9 - -	0187408105

A A.	Icosaedri	Latus. l bin $2 - l\frac{1}{5}$	1051462224 2	0021793674
A B.		Radius circuli triāgulo circūscripti l bin $\frac{2}{3} - l\frac{4}{45}$	6070619981 —	0216766954
A C.		Radius Sphæræ inscriptæ l bin $\frac{1}{3} + l\frac{1}{45}$	7946544723 —	0099821668
AD.		Area Trianguli l bin $\frac{9}{10} - l\frac{9}{20}$	4787270692 —	0319912015
A F.		Superficies l bin $360 - l72000$	9574541383 - -	0981117081
A E.		Soliditas l bin $\frac{40}{9} + l\frac{14\,000}{3645}$	2536150710 - -	0404175058

B A.	Dodecaedri	Latus l bin $2 - l\frac{20}{9}$	7136441796 —	0146518272
B B.		Radius circuli Quinq. circumf. l bin $\frac{2}{3} - l\frac{4}{45}$	6070619981 —	0216766954
C B.		Area Quinquanguli, l bin $\frac{25}{18} - l\frac{125}{324}$	8762185202 —	0057387571
B D.		Superficies, l bin $200 - l8000$	1051462224 2 - -	1021793674
B E.		Radius Sphæræ inscriptæ, l bin $\frac{1}{3} + l\frac{4}{45}$	7946544723 —	0099821668
B F.		Soliditas l bin $\frac{40}{9} + l\frac{8000}{729}$	2785163863 - -	0444850752

Quem vsum in his corporibus hi prębeant Logarithmi, aliquot exemplis quam potero breuissime ostendam.

Esto data soliditas Octaedri 17: et quęrantur. 1, Radius Sphęrę eidem circumscriptę. 2, Superficies Tetraedri. 3, latus Cubi. 4, Radius circuli Icosaedri triangulo circumscripti. 5, soliditas Dodecaedri, eidem Sphærę, cum dato Octaedro, reliquisque corporibus inscripti.

1 Quęritur Radius Sphærę circumscriptę. Cum autem nulla sit ratio inter magnitudines heterogeneas; sumendi sunt Logarithmi laterum cubicorum soliditatum datarum: vt lineæ cum lineis conferantur. Ipsique Logarithmi laterum, (trientes scilicet datorum,) licet ipsa latera ignorentur; totum nobis negotium conficient.

Latus

		Logarithmi.
pro-port	Latus cubicum Soliditatis Octaedri *P*	0041646246
	Radius Sphæræ circumscriptæ *A R*	0000000000
	Latus cubicum Soliditatis Octaedri dati 17	0410149640
	Radius Sphæræ quæsitus 233616436	0368503394

2. Quæritur superficies Tetraedri. Hic quadratorum Logarithmi sumendi sunt, vt superficiernm comparatio instituatur.

pro-port	Quadratum lateris cubici Soliditatis Octaedri *P*	0083292492
	Superficies Tetraedri *H*	0664529360
	Quadratum lateris cubici Soliditatis datæ 17	0820299280
	aggregatum mediorum	1484828640
	Superficies Tetraedri quæsita 252078698	0401536248

3. Quæritur Latus Cubi.

pro-port	Latus cubicũ soliditatis Octaedri *P* Complem. Arith.	9958353754
	Latus Cubi *Q*	0062469368
	Latus cubicum soliditatis datæ 17	0410449640
	Latus Cubi quæsitum 260757024	1043097276z

4. Quæritur Radius circuli circumscripti triangulo Icosaedri

pro-port	Latus cubicum soliditatis Octaedri *P*	0041646246
	Radius circuli triangulo circumscripti *A B*	0216766954
	Latus cubicum soliditatis datæ 17	0410119640
	aggregatum mediorum	0193382686
	Radius circuli circũscr. triãg. Icosa. quæsitus 141819660 7	0151736440

5. Quæritur soliditas Dodecaedri

pro-port	Soliditas Octaedri *P* Complem. Arithmet.	9875061263
	Soliditas Dodecaedri *B F*	0444850752
	Soliditas Octaedri data 17	1230448921
	Soliditas Dodecaedri quæsita 3551083922	1155036093

Atque ad hunc modum, vsum Logarithmorum aliqua ex parte hoc tempore illustrandum censui. Supereſt adhuc eorum vsus nobilissimus, et maxime necessarius in doctrina Triangulorum Sphæricorum: quem seorsum, vti spero, peculiari libro exhibebo. Volente D E O. Cui soli in omnibus omnis debetur gloria.

FINIS.

Num. absolu.	Logarithmi.
1	0,00000,00000,0000
2	0,30102,99956,6398 17609,12590,5568
3	0,47712,12547,1966 12493,87366,0830
4	0,60205,99913,2796 9691,00130,0806
5	0,69897,00043,3602 7918,12460,4762
6	0,77815,12503,8364 6694,67896,3062
7	0,84509,80400,1426 5799,19469,7768
8	0,90308,99869,9194 5115,25224,4738
9	0,95424,25094,3932 4575,74905,6068
10	1,00000,00000,0000 4139,26851,5823
11	1,04139,26851,5823 3778,85608,8939
12	1,07918,12460,4762 3476,21062,5922
13	1,11394,33523,0684 3218,46833,7140
14	1,14612,80356,7824 2996,32233,7744
15	1,17609,12590,5568 2802,87236,0024
16	1,20411,99826,5592 2632,89387,2235
17	1,23044,89213,7827 2482,35837,2504
18	1,25527,25051,0331 2348,10958,4952
19	1,27875,36009,5283 2227,63947,1115
20	1,30102,99956,6398 2118,92990,6994
21	1,32221,92947,3392 2020,33860,8829
22	1,34242,26808,2221 1930,51551,9538
23	1,36172,78360,1759 1848,34056,9402
24	1,38021,12417,1161 1772,87609,6043
25	1,39794,00086,7204 1703,33392,9878
26	1,41497,33479,7082 1639,04161,8817
27	1,43136,37641,5899 1579,42671,8323
28	1,44715,80313,4222 1523,99665,5674
29	1,46239,79978,9896 1472,32568,2070
30	1,47712,12547,1966 1424,04391,1461
31	1,49136,16938,3427 1378,82844,8564
32	1,50514,99783,1991 1336,39615,5798
33	1,51851,39398,7789 1296,49771,6437
34	1,53147,89170,4226 1258,91273,0802

Num. absolu.	Logarithmi.
34	1,53147,89170,4226 1258,91273,0802
35	1,54406,80443,5028 1223,44564,1701
36	1,55630,25007,6729 1189,92232,9971
37	1,56820,17240,6700 1158,18725,4982
38	1,57978,35966,1682 1128,10104,0968
39	1,59106,46070,2650 1099,53843,0147
40	1,60205,99913,2797 1072,38653,9177
41	1,61278,38567,1974 1046,54336,7816
42	1,62324,92903,9790 1021,91651,8169
43	1,63346,84555,7959 998,42209,0660
44	1,64345,26764,8619 975,98372,8915
45	1,65321,25137,7534 954,53179,0623
46	1,66275,78316,8157 934,00262,5416
47	1,67209,78579,3573 914,33794,3986
48	1,68124,12373,7559 895,48426,5292
49	1,69019,60800,2851 877,39243,0751
50	1,69897,00043,3602 860,01717,6192
51	1,70757,01760,9794 843,31675,3686
52	1,71600,33436,3480 827,25259,6599
53	1,72427,58696,0079 811,78902,2218
54	1,73239,37598,2297 796,89296,7127
55	1,74036,26894,9424 782,53375,1196
56	1,74818,80270,0620 768,68286,6629
57	1,75587,48556,7249 755,31378,9045
58	1,76342,79935,6294 742,40180,7920
59	1,77085,20116,4214 729,92387,4150
60	1,77815,12503,8364 717,85846,2713
61	1,78532,98350,1077 706,18544,8748
62	1,79239,16894,9825 694,88599,5533
63	1,79934,05494,5358 683,94245,3031
64	1,80617,99739,8389 673,33826,5897
65	1,81291,33566,4286 663,05788,9901
66	1,81954,39355,4187 653,08671,5895
67	1,82607,48027,0082 643,41100,0242

Num. absolu.	Logarithmi.
67	1,82607,48027,0082 643,41100,0542
68	1,83250,89127,0624 634,01780,3102
69	1,83884,90907,3726 624,89492,7700
70	1,84509,80400,1426 616,03087,0482
71	1,85125,83487,1908 607,41477,1219
72	1,85733,24964,3127 599,03636,0919
73	1,86332,28601,2046 590,88596,1052
74	1,86923,17197,3098 582,95436,6072
75	1,87506,12633,9170 575,23288,8909
76	1,88081,35922,8079 567,71328,9169
77	1,88649,07251,7248 560,38775,1800
78	1,89209,46026,9048 553,24885,9996
79	1,89762,70912,9044 546,28957,0150
80	1,90308,93869,9194 539,50318,8671
81	1,90848,50188,7865 532,88335,0507
82	1,91381,38523,8372 526,42399,9235
83	1,91907,80923,7607 520,11936,8581
84	1,92427,92860,6188 513,96396,5241
85	1,92941,89257,1429 507,95255,2928
86	1,93449,84512,4357 502,08013,7505
87	1,93951,92526,1862 496,34195,3155
88	1,94448,26721,5017 490,73344,9474
89	1,94939,00066,4491 485,25027,9441
90	1,95424,25094,3932 479,88828,8177
91	1,95904,13923,2109 474,64350,2447
92	1,96378,78273,4556 469,51212,0838
93	1,96848,29485,5394 464,49050,4576
94	1,97312,78535,9970 459,57516,8915
95	1,97772,36052,8885 454,76277,5072
96	1,98227,12330,3957 450,05012,2667
97	1,98677,17342,6624 445,43414,2625
98	1,99122,60756,9249 440,91189,0506
99	1,99563,51945,9755 436,48054,0245
100	2,00000,00000,0000 432,13737,8265

Num. absolu	Logarithmi.
101	2,00432,13737,8264
	427,87979,7928
102	2,00860,01717,6192
	423,70529,4315
103	2,01283,72247,0517
	419,61145,9361
104	2,01703,33392,9878
	415,59597,7116
105	2,02118,92990,6994
	411,65661,9483
106	2,02530,58652,6477
	407,79124,2044
107	2,02938,37776,8521
	403,99778,0174
108	2,03342,37554,8695
	400,27424,5367
109	2,03742,64979,4062
	396,61872,1761
110	2,04139,26851,5823
	393,02936,2843
111	2,04532,29787,8666
	389,50438,8352
112	2,04921,80226,7018
	386,04208,1324
113	2,05307,84434,8342
	382,64078,5305
114	2,05690,48513,3647
	379,29890,1714
115	2,06069,78403,5361
	376 01488,7331
116	2,06445,79892,2692
	372,78725,1924
117	2,06818,58617,4616
	369,61455,5996
118	2,07188,20073,0612
	366,49540,8641
119	2,07554,69613,9253
	363,42846,5509
120	2,07918,12460,4762
	360,41242,6883
121	2,08278, 53703,1645
	357,44603,5820
122	2,08635,98306,7475
	354,52807,6465
123	2,08990,51114,3940
	351,65737,2284
124	2,09342,16851,6224
	348,83278,4582
125	2,09691,00130,0806
	346,05321,0950
126	2,10037,05451,1756
	343,31758,3840
127	2,10380,37209,5596
	340,62486,9191
128	2,10720,99696,4787
	337,97406,5138
129	2,11058,97102,9925
	335,36420,0759
130	2,11394,33523,0684
	332,79433,4893
131	2,11727,12956,5577
	330,26355,5008
132	2,12057,39312,0585
	327,77097,6124
133	2,12385,16409,6709
	325,31573,9772
134	2,12710,47983,6481
	322,89701,3021

Num. absolu.	Logarithmi.
134	2,12710,47983,6481
	322,89701,3021
135	2,13033,37684,9501
	320,51398,7521
136	2,13353,89083,7022
	318,16587,8619
137	2,13672,05671,5641
	315,85192,4483
138	2,13987,90864,0124
	313,57138,5286
139	2,14301,48002,5410
	311,32354,2414
140	2,14612,80356,7824
	309,10769,7714
141	2,14921,91126,5538
	306,92317,2768
142	2,15228,83443,8306
	304,76930,8200
143	2,15533,60374,6506
	302,64546,3019
144	2,15836,24920,9525
	300,55101,3973
145	2,16136,80022,3498
	298,48535,4946
146	2,16435,28557,8444
	296,44789,6374
147	2,16731,73347,4818
	294,43806,4678
148	2,17026,17153,9496
	292,45530,1732
149	2,17318,62684,1228
	290,49906,4340
150	2,17609,12590,5568
	288,56882,3749
151	2,17897,69472,9317
	286,66406,5161
152	2,18184,35879,4478
	284,78428,7282
153	2,18469,14308,1760
	282,92900,1888
154	2,18752,07208,3648
	281,09773,3381
155	2,19033,16981,7029
	279,29001,8417
156	2,19312,45983,5446
	277,50540,5478
157	2,19589,96524,0924
	275,74345,4518
158	2,19865,70869,5442
	274,00373,6603
159	2,20139,71243,2045
	272,28583,3548
160	2,20411,99826,5593
	270,58933,7592
161	2,20682,58760,3185
	268,91385,1079
162	2,20951,50145,4264
	267,25898,6132
163	2,21218,76044,0396
	265,62436,4374
164	2,21484,38480,4770
	264,00961,6621
165	2,21748,39442,1391
	262,41438,2615
166	2,22010,80880,4006
	260,83831,0752
167	2,22271,64711,4758
	259,28105,7827

Num. absolu	Logarithmi.
167	2,22271,64711,4758
	259,28105,7827
168	2,22530,92817,2585
	257,74228,8782
169	2,22788,67046,1367
	256,22167,6460
170	2,23044,89213,7827
	254,71890,1388
171	2,23299,61103,9215
	253,23365,1540
172	2,23552,84469,0755
	251,76562,2125
173	2,23804,61031,2880
	250,31451,5380
174	2,24054,92482,8260
	248,88004,0370
175	2,24303,80486,8630
	247,46191,2785
176	2,24551,26678,1415
	246,05985,4766
177	2,24797,32663,6181
	244,67359,4709
178	2,25042,00023,0890
	243,30286,7099
179	2,25285,30309,7989
	241,94741,2342
180	2,25527,25051,0331
	240,60697,6587
181	2,25767,85748,6918
	239,28131,1590
182	2,26007,13879,8508
	237,97017,4535
183	2,26245,10897,3043
	236,67332,7911
184	2,26481,78230,0954
	235,39053,9348
185	2,26717,17284,0302
	234,12158,1490
186	2,26951,29442,1792
	232,86623,1858
187	2,27184,16065,3650
	231,62427,2718
188	2,27415,78492,6368
	230,39549,0956
189	2,27646,18041,7324
	229,17967,7959
190	2,27875,36009,5283
	227,97662,9490
191	2,28103,33672,4773
	226,78614,5582
192	2,28330,12287,0355
	225,60803,0422
193	2,28555,73090,0777
	224,44209,2246
194	2,28780,17299,3023
	223,28814,3229
195	2,29003,46113,6252
	222,14599,9395
196	2,29225,60713,5647
	221,01548,0513
197	2,29446,62261,6160
	219,89640,9993
198	2,29666,51902,6153
	218,78861,4818
199	2,29885,30764,0971
	217,69192,5427
200	2,30102,99956,6398
	216,60617,5651

Num. absolu.	Logarithmi.
201	2,30319,60574,2049
	215,53120,2614
202	2,30535,13694,4663
	214,46684,6658
203	2,30749,60379,1321
	213,41295,1269
204	2,30963,01674,2590
	212,36936,2986
205	2,31175,38610,5576
	211,33593,1339
206	2,31386,72203,6915
	210,31250,8777
207	2,31597,03454,5692
	209,29895,0584
208	2,31806,33349,6276
	208,29511,4830
209	2,32014,62861,1106
	207,30086,2286
210	2,32221,92947,3392
	206,31605,6377
211	2,32428,24552,9769
	205,34056,3106
212	2,32633,58609,2875
	204,37425,0999
213	2,32837,96034,3874
	203,41699,1042
214	2,33041,37733,4916
	202,46865,6645
215	2,33243,84599,1561
	201,52912,3532
216	2,33445,37511,5093
	200,59826,9760
217	2,33645,97338,4853
	199,67597,5608
218	2,33845,64936,0461
	198,76212,3551
219	2,34044,41148,4012
	197,85659,8209
220	2,34242,26808,2221
	196,95928,6290
221	2,34439,22736,8511
	196,07007,6553
222	2,34635,29744,5064
	195,18885,9753
223	2,34830,48630,4817
	194,31552,8599
224	2,35024,80183,3416
	193,44997,7720
225	2,35218,25181,1136
	192,59210,3603
226	2,35410,84391,4739
	191,74180,4574
227	2,35602,58571,9313
	190,89898,0732
228	2,35793,48470,0045
	190,06353,3944
229	2,35983,54823,3989
	189,23536,7770
230	2,36172,78360,1759
	188,41438,7456
231	2,36361,19798,9215
	187,60049,9875
232	2,36548,79848,9090
	186,79361,3513
233	2,36735,59210,2603
	185,99363,8412
234	2,36921,58574,1015
	185,20048,6159

Num. absolu.	Logarithmi.
234	2,26921,58574,1015
	185,20048,6159
235	2,37106,78622,7174
	184,41406,9837
236	2,37291,20029,7011
	183,63430,3999
237	2,37474,83460,1010
	182,86110,4642
238	2,37657,69570,5652
	182,09438,9163
239	2,37839,79009,4815
	181,33407,6346
240	2,38021,12417,1161
	180,58008,6326
241	2,38201,70425,7487
	179,83234,0556
242	2,38381,53659,8043
	179,09076,1790
243	2,38560,62735,9833
	178,35527,4042
244	2,38738,98263,3875
	177,62580,2578
245	2,38916,60843,6453
	176,90227,3885
246	2,39093,51071,0338
	176,18461,5629
247	2,39269,69532,5967
	175,47275,6655
248	2,39445,16808,2622
	174,76662,6952
249	2,39619,93470,9574
	174,06615,7630
250	2,39794,00086,7204
	173,37128,0901
251	2,39967,37214,8105
	172,68193,0050
252	2,40140,05407,8155
	171,99803,9428
253	2,40312,05211,7583
	171,31954,4412
254	2,40483,37166,1995
	170,64638,1401
255	2,40654,01804,3396
	169,97848,7789
256	2,40823,99653,1185
	169,31580,1945
257	2,40993,31233,3130
	168,65826,3193
258	2,41161,97059,6323
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260	2,41497,33479,7082
	166,71593,6746
261	2,41664,05073,3828
	166,07839,8147
262	2,41830,12913,1975
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263	2,41995,57484,8976
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264	2,42160,39268,6983
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265	2,42324,58739,3681
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266	2,42488,16366,3107
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	162,35326,6420

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267	2,42651,12613,6458
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269	2,42975,22800,0241
	161,14841,5658
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	160,55267,1542
271	2,43296,92908,7441
	159,96131,5979
272	2,43456,89040,3420
	159,37430,0656
273	2,43616,26470,4076
	158,79157,7963
274	2,43775,05628,2039
	158,21310,0987
275	2,43933,26938,3026
	157,63882,3496
276	2,44090,90820,6522
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277	2,44247,97690,6445
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278	2,44404,47959,1808
	155,94073,5552
279	2,44560,42032,7360
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	154,82885,6286
281	2,44870,63199,0508
	154,27884,1428
282	2,45024,91083,1936
	153,73272,0494
283	2,45178,64355,2430
	153,19045,2274
284	2,45331,83400,4704
	152,65199,6147
285	2,45484,48600,0851
	152,11731,2053
286	2,45636,60331,2904
	151,58636,0495
287	2,45788,18967,3399
	151,05910,2524
288	2,45939,24877,5923
	150,53549,9732
289	2,46089,78427,5655
	150,01551,4241
290	2,46239,79978,9896
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291	2,46389,29889,8591
	148,98624,6251
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293	2,46686,76203,5412
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294	2,46834,73304,1216
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295	2,46982,20159,7816
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296	2,47129,17110,5894
	146,47382,5827
297	2,47275,64493,1721
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306	2,48572,14264,8158
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308	2,48855,07165,0046
	140,77629,2438
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312	2,49415,45940,1844
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317	2,50105,92622,1775
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318	2,50242,71199,8443
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322	2,50785,58716,9582
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323	2,50920,25223,3110
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	133,42390,8906
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327	2,51454,77526,6028
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	131,80419,2792
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	128,29979,2542
339	2,53019,96982,0307
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374	2,57287,16022,0048
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393	2,59439,25503,7543
	110,36714,5015
394	2,59549,62218,2558
	110,08738,0088
395	2,59659,70956,2646
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396	2,59769,51859,2551
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397	2,59879,05067,6312
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405	2,60745,50232,1467
	107,10103,6252
406	2,60852,60335,7719
	106,83756,4803
407	2,60959,44092,2522
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408	2,61066,01630,8988
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409	2,61172,33080,0734
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410	2,61278,38567,1974
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413	2,61595,00516,5641
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414	2,61700,03411,2090
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415	2,61804,80967,1209
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416	2,61909,33306,2674
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417	2,62013,60549,7376
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421	2,62428,20958,3566
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423	2,62634,03673,7503
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428	2,63144,37690,1317
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436	2,63948,64892,6859
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441	2,64443,85894,6784
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469	2,67117,28427,1508
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476	2,67760,69527,2050
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478	2,67942,78966,1213
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481	2,68214,50763,7383
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489	2,68930,88591,2363
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492	2,69196,51027,6736
	88,18165,0987
493	2,69284,69192,7723
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547	2, 73798, 73263, 3344 79, 32321, 5093
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565	2, 75204, 84478, 1944 76, 79833, 6884
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571	2, 75663, 61082, 4585 75, 99205, 4717
572	2, 75739, 60287, 9302 75, 85931, 7437
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576	2, 76042, 24834, 2321 75, 33297, 3252
577	2, 76117, 58131, 5573 75, 20252, 6480
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591	2, 77158, 74808, 8126 73, 42258, 4166
592	2, 77232, 17067, 2292 73, 29866, 4134
593	2, 77305, 46933, 6426 73, 17516, 1693
594	2, 77378, 64449, 8119 73, 05207, 4736
595	2, 77451, 69657, 2855 72, 92940, 1169
596	2, 77524, 62597, 4024 72, 80713, 8913
597	2, 77597, 43311, 2937 72, 68528, 5904
598	2, 77670, 11839, 8841 72, 56384, 0090
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605	2,78175,53746,5247
	71,72495,1382
606	2,78247,26241,6629
	71,60669,0898
607	2,78318,86910,7527
	71,48881,9747
608	2,78390,35792,7274
	71,37133,6013
609	2,78461,72926,3287
	71,25423,7790
610	2,78532,98350,1077
	71,13752,3179
611	2,78604,12102,4256
	71,02119,0300
612	2,78675,14221,4556
	70,90523,7285
613	2,78746,04745,1841
	70,78966,2275
614	2,78816,83711,4116
	70,67446,3426
615	2,78887,51157,7542
	70,55963,8902
616	2,78958,07121,6444
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617	2,79028,51640,3325
	70,33110,5557
618	2,79098,84750,8882
	70,21739,3130
619	2,79169,06490,2012
	70,10404,7813
620	2,79239,16894,9825
	69,99106,7833
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	69,87845,1424
622	2,79379,03846,9082
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623	2,79448,80466,5917
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624	2,79518,45896,8242
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625	2,79588,00173,4408
	69,43158,6636
626	2,79657,43332,1044
	69,32076,2028
627	2,79726,75408,3072
	69,21029,0648
628	2,79795,96437,3720
	69,10017,0807
629	2,79865,06454,4527
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631	2,80002,93392,4413
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633	2,80140,37100,1735
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637	2,80413,94323,3535
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638	2,80482,06787,2116
	68,01794,3724
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641	2,80685,80295,1882
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645	2,80955,97146,3527
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647	2,81090,42806,6871
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651	2,81358,09885,6819
	66,66071,6373
652	2,81424,75957,3192
	66,55855,4316
653	2,81491,31812,7508
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654	2,81557,77483,2427
	66,35516,6751
655	2,81624,12999,9178
	66,25393,8388
656	2,81690,38393,7566
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659	2,81888,54145,9401
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661	2,82020,14594,8565
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662	2,82085,79894,3971
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663	2,82151,35284,0477
	65,45509,6324
664	2,82216,80793,6801
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670	2,82607,48027,0083
	64,77174,6816
671	2,82672,25201,6899
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673	2,82801,50642,2398
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674	2,82865,98965,3532
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675	2,82930,37728,3102
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676	2,82994,66959,4164
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677	2,83058,86686,8515
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	63,63290,2506
683	2,83442,07036,8154
	63,53980,3858
684	2,83505,61017,2012
	63,44697,7230
685	2,83569,05714,9242
	63,35442,1433
686	2,83632,41157,0675
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687	2,83695,67370,5955
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688	2,83758,84382,3551
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689	2,83821,92219,0763
	62,98688,2963
690	2,83884,90907,3726
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691	2,83947,80473,7420
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693	2,84073,32346,1181
	62,62358,4305
694	2,84135,94704,5486
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695	2,84198,48045,9012
	62,44350,2044
696	2,84260,92396,1056
	62,35384,8745
697	2,84323,27780,9801
	62,26445,2516
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	61,73341,2229
704	2,84757,26591,4211
	61,64578,4929
705	2,84818,91169,9140
	61,55840,6041
706	2,84880,47010,5181
	61,47127,4509
707	2,84941,94137,9690
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708	2,85003,32576,8977
	61,29774,9330
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	60,95362,1501
713	2,85308,95298,5187
	60,86819,2430
714	2,85369,82117,7617
	60,78300,2490
715	2,85430,60418,0108
	60,69805,0678
716	2,85491,30223,0786
	60,61333,5995
717	2,85551,91556,6781
	60,52885,7451
718	2,85612,44442,4232
	60,44461,4058
719	2,85672,88903,8290
	60,36060,4837
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	60,27682,8816
721	2,85793,52647,1943
	60,19328,5021
722	2,85853,71975,6964
	60,10997,2489
723	2,85913,82972,9453
	60,02689,0261
724	2,85973,85661,9714
	59,94403,7385
725	2,86033,80065,7099
	59,86141,2910
726	2,86093,66207,0009
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727	2,86153,44108,5904
	59,69684,5400
728	2,86213,13793,1304
	59,61490,0493
729	2,86272,75283,1797
	59,53318,0248
730	2,86332,28601,2045
	59,45168,3741
731	2,86391,73769,5786
	59,37041,0053
732	2,86451,10810,5839
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733	2,86510,39746,4113
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	58,88739,6399
738	2,86805,63618,2304
	58,80765,7179
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741	2,86981,82079,7933
	58,56972,9970
742	2,87040,39052,7903
	58,49084,8155
743	2,87098,88137,6058
	58,41217,8530
744	2,87157,29355,4588
	58,33372,0241
745	2,87215,62727,4829
	58,25547,2438
746	2,87273,88274,7267
	58,17743,4273
747	2,87332,06018,1540
	58,09960,4906
748	2,87390,15978,6446
	58,02198,3501
749	2,87448,18176,9947
	57,94456,9223
750	2,87506,12633,9170
	57,86736,1247
751	2,87563,99370,0417
	57,79035,8748
752	2,87621,78405,9165
	57,71356,0906
753	2,87679,49762,0071
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	57,40839,9887
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758	2,87966,92056,3206
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759	2,88024,17758,9549
	57,18163,8530
760	2,88081,35922,8079
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	57,03145,6903
762	2,88195,49713,3960
	56,95666,1528
763	2,88252,45379,5488
	56,88206,2081
764	2,88309,33585,7569
	56,80765,7793
765	2,88366,14351,5362
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767	2,88479,53639,4898
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769	2,88592,63398,0143
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770	2,88649,07251,7248
	56,36528,7848
771	2,88705,43780,5096
	56,29222,8477
772	2,88761,73003,3573
	56,21935,8260
773	2,88817,94939,1833
	56,14667,6456
774	2,88874,09606,8289
	56,07418,2342
775	2,88930,17025,0631
	56,00187,5188
776	2,88986,17212,5819
	55,92975,4272
777	2,89042,10188,0091
	55,85781,8878
778	2,89097,95969,8969
	55,78206,8287
779	2,89153,74576,7256
	55,71450,1792
780	2,89209,46026,9048
	55,64311,8682
781	2,89265,10338,7730
	55,57191,8255
782	2,89320,67530,5985
	55,50089,9809
783	2,89376,17620,5794
	55,43006,2649
784	2,89431,60626,8443
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785	2,89486,96567,4525
	55,28892,9416
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	55,21863,1966
787	2,89597,47323,5907
	55,14851,3049
788	2,89652,62174,8956
	55,07857,1986
789	2,89707,70032,0942
	55,00880,8102
790	2,89762,70912,9044
	54,93922,0724
791	2,89817,64834,9768
	54,86980,9181
792	2,89872,51815,8949
	54,80057,2811
793	2,89927,31873,1760
	54,73151,0950
794	2,89982,05024,2710
	54,66262,2937
795	2,90036,71286,5647
	54,59390,8120
796	2,90091,30677,3767
	54,52536,5845
797	2,90145,83213,9612
	54,45699,5461
798	2,90200,28913,5073
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799	2,90254,67793,1399
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803	2,90471,55452,7868 54,05034,6977
804	2,90525,60487,4845 53,98316,1942
805	2,90579,58803,6787 53,91614,3722
806	2,90633,50418,0509 53,84929,1699
807	2,90687,35347,2208 53,78260,5251
808	2,90741,13607,7459 53,71608,3769
809	2,90794,85216,1228 53,64972,6637
810	2,90848,50188,7865 53,58353,3251
811	2,90902,08542,1116 53,51750,3001
812	2,90955,60292,4117 53,45163,5290
813	2,91009,05455,9407 53,38592,9513
814	2,91062,44048,8920 53,32038,5078
815	2,91115,76087,3998 53,25500,1288
816	2,91169,01587,5386 53,18977,7855
817	2,91222,20565,3241 53,12471,3891
818	2,91275,33036,7132 53,05980,8910
819	2,91328,39017,6042 52,99506,2330
820	2,91381,38523,8372 52,93047,3573
821	2,91434,31571,1945 52,86604,2061
822	2,91487,18175,4006 52,80176,7221
823	2,91539,98352,1227 52,73764,8484
824	2,91592,72116,9711 52,67368,5281
825	2,91645,39485,4992 52,60987,7047
826	2,91698,00473,2039 52,54622,3217
827	2,91750,55095,5256 52,48272,3232
828	2,91803,03367,8488 52,41937,6540
829	2,91855,45305,5028 52,35618,2579
830	2,91907,80923,7607 52,29314,0804
831	2,91960,10237,8411 52,23025,0661
832	2,92012,33262,9072 52,16751,1607
833	2,92064,50014,0679 52,10492,2095
834	2,92116,60506,3774 52,04248,4586
835	2,92168,64754,8360 51,98019,5542
836	2,92220,62774,3902 51,91805,5424
837	2,92272,54579,9326 51,85606,3702
838	2,92324,40186,3028 51,79421,9843
839	2,92376,19608,2871 51,73252,3317
840	2,92427,92860,6188 51,67097,3603
841	2,92479,59957,9791 51,60957,0174
842	2,92531,20914,9965 51,54831,2509
843	2,92582,75746,2474 51,48720,0091
844	2,92634,24466,2565 51,42623,2404
845	2,92685,67089,4969 51,36540,8933
846	2,92737,03630,3902 51,30472,9169
847	2,92788,34103,3671 51,24419,2601
848	2,92839,58522,5672 51,18379,8724
849	2,92890,76902,4396 51,12354,7033
850	2,92941,89257,1429 51,06343,7030
851	2,92992,95600,8459 51,00346,8211
852	2,93043,95947,6670 50,94364,0083
853	2,93094,90311,6752 50,88395,2147
854	2,93145,78706,8900 50,82440,3917
855	2,93196,61147,2817 50,76499,4898
856	2,93247,37646,7715 50,70572,4605
857	2,93298,08219,2320 50,64659,2550
858	2,93348,72878,4870 50,58759,8255
859	2,93399,31638,3125 50,52874,1232
860	2,93449,84512,4357 50,47002,1008
861	2,93500,31514,5365 50,41143,7107
862	2,93550,72658,2472 50,35298,9051
863	2,93601,07957,1523 50,29467,6366
864	2,93651,37424,7889 50,23649,8592
865	2,93701,61074,6481 50,17845,5254
866	2,93751,78920,1735 50,12054,5886
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870	2,93951,92526,1862 49,89023,8904
871	2,94001,81550,0766 49,83299,2491
872	2,94051,64849,3257 49,77587,7300
873	2,94101,42437,0557 49,71889,2883
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875	2,94200,80530,2231 49,60531,4577
876	2,94250,41061,6808 49,54871,9796
877	2,94299,95933,6604 49,49225,4006
878	2,94349,45159,0610 49,43591,6768
879	2,94398,88750,7378 49,37970,7639
880	2,94448,26721,5017 49,32362,6188
881	2,94497,59084,1205 49,26767,1977
882	2,94546,85851,3182 49,21184,4576
883	2,94596,07035,7758 49,15614,3549
884	2,94645,22650,1307 49,10056,8476
885	2,94694,32706,9783 49,04511,8923
886	2,94743,37218,8706 48,98979,4468
887	2,94792,36198,3174 48,93459,4687
888	2,94841,29657,7861 48,87951,9160
889	2,94890,17609,7021 48,82456,7470
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891	2,94987,77040,3687 48,71503,3926
892	2,95036,48543,7613 48,66045,1241
893	2,95085,14588,8854 48,60599,0738
894	2,95133,75187,9592 48,55165,1999
895	2,95182,30353,1591 48,49743,4621
896	2,95230,80096,6212 48,44333,8197
897	2,95279,24430,4409 48,38936,2322
898	2,95327,63366,6731 48,33550,6592
899	2,95375,96917,3323 48,28177,0609
900	2,95424,25094,3932 48,22815,3974

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902	2,95520,65375,4194
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903	2,95568,77503,1350
	48,06801,6185
904	2,95616,84304,7535
	48,01487,2984
905	2,95664,85792,0519
	47,96184,7162
906	2,95712,81976,7681
	47,90893,8329
907	2,95760,72870,6010
	47,85614,6099
908	2,95808,58485,2109
	47,80347,0088
909	2,95856,38832,2197
	47,75090,9913
910	2,95904,13923,2110
	47,69846,5191
911	2,95951,83769,7301
	47,64613,5541
912	2,95999,48383,2842
	47,59392,0589
913	2,96047,07773,3431
	47,54181,9954
914	2,96094,61957,3385
	47,48983,3261
915	2,96142,10940,6645
	47,43796,0140
916	2,96189,54736,6785
	47,38620,0217
917	2,96236,93356,7002
	47,33455,3122
918	2,96284,26812,0124
	47,28301,8488
919	2,96331,55113,8612
	47,23159,5943
920	2,96378,78273,4555
	47,18028,5129
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	47,12908,5679
922	2,96473,09210,5363
	47,07799,7228
923	2,96520,17010,2591
	47,02701,9420
924	2,96567,19712,2011
	46,97615,1892
925	2,96614,17327,3903
	46,92539,4291
926	2,96661,09866,8194
	46,87474,6256
927	2,96707,97341,4450
	46,82420,7436
928	2,96754,79762,1886
	46,77377,7478
929	2,96801,57139,9364
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	46,62313,7265
932	2,96941,59123,5399
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938	2,97220,28383,7906
	46,27538,8705
939	2,97266,55922,6611
	46,22613,3359
940	2,97312,78535,9970
	46,17698,2756
941	2,97358,96234,2726
	46,12793,6562
942	2,97405,09027,9288
	46,07899,4445
943	2,97451,16927,3733
	46,03015,6074
944	2,97497,19942,9807
	45,98142,1119
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	45,93278,9253
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	45,88426,0148
947	2,97634,99790,0327
	45,83583,3479
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	45,78750,8923
949	2,97726,62124,2729
	45,73928,6156
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	45,69116,4857
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	45,64314,4706
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956	2,98045,78922,7610
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957	2,98091,19377,7684
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959	2,98181,86071,7065
	45,26258,6892
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	45,21546,2897
961	2,98272,33876,6854
	45,16843,6927
962	2,98317,50720,3781
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971	2,98721,92299,0802
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	44,65753,4208
973	2,98811,28402,6837
	44,61166,1026
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	39,64349,7221
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	39,24939,1004
1107	3,04414,76208,7872
	39,21395,1369
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	39,17857,5675
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	36,29707,5401
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1207	3,08170,72700,9735
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1224	3,08778,14178,0955
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1226	3,08849,04701,8239
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1227	3,08884,45627,2700
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1229	3,08955,18828,8644
	35,32285,5296
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	35,29414,9193
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	35,26548,9708
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1237	3,09236,96996,2912
	35,09450,5497
1238	3,09272,06446,8409
	35,05616,9196
1239	3,09307,12063,7606
	35,04787,8617
1240	3,09342,16851,6224
	35,00963,3650
1241	3,09377,17814,9874
	34,98143,4184
1242	3,09412,15958,4058
	34,95328,0108
1243	3,09447,11286,4166
	34,92517,1315
1244	3,09482,03803,5481
	34,89710,7695
1245	3,09516,93514,3176
	34,86908,9140
1246	3,09551,80423,2316
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1247	3,09586,64534,7855
	34,81318,6786
1248	3,09621,45853,4641
	34,78530,2773
1249	3,09656,24383,7414
	34,75746,3393
1250	3,09691,00130,0806
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1251	3,09725,73096,9343
	34,70191,8099
1252	3,09760,43288,7442
	34,67421,1973
1253	3,09795,10709,9415
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	34,61893,2236
1255	3,09864,37258,1706
	34,59135,8412
1256	3,09898,96394,0118
	34,56382,8478
1257	3,09933,52776,8596
	34,53634,2329
1258	3,09968,06411,0925
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1259	3,10002,57301,0786
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1260	3,10037,05451,1756
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1261	3,10071,50865,7308
	34,42683,3503
1262	3,10105,93549,0811
	34,39956,4722
1263	3,10140,33505,5533
	34,37233,9104
1264	3,10174,70739,4637
	34,34515,6547
1265	3,10209,05255,1184
	34,31801,6950
1266	3,10243,37056,8134
	34,29092,0210
1267	3,10277,66148,8344
	34,26386,6227

Num. absolu.	Logarithmi.
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	34,26386,6227
1268	3,10311,92535,4571
	34,23685,4899
1269	3,10346,16220,9470
	34,20988,612
1270	3,10380,37209,5596
	34,18295,9805
1271	3,10414,55505,5401
	34,15607,5839
1272	3,10448,71113,1240
	34,12923,4126
1273	3,10482,84036,5366
	34,10243,4568
1274	3,10516,94279,9934
	34,07567,7064
1275	3,10551,01847,6998
	34,04896,1517
1276	3,10585,00743,8515
	34,02228,7828
1277	3,10619,08972,6343
	33,99565,5896
1278	3,10653,08538,2239
	33,96906,5627
1279	3,10687,05444,7866
	33,94251,6922
1280	3,10720,99696,4787
	33,91600,9682
1281	3,10754,91297,4469
	33,88954,3811
1282	3,10788,80251,8280
	33,86311,9213
1283	3,10822,66563,7493
	33,83673,5790
1284	3,10856,50237,3283
	33,81039,3448
1285	3,10890,31276,6731
	33,78409,2089
1286	3,10924,09685,8820
	33,75783,1618
1287	3,10957,85469,0438
	33,73161,1941
1288	3,10991,58630,2379
	33,70543,2961
1289	3,11025,29173,5340
	33,67929,4585
1290	3,11058,97102,9925
	33,65319,6717
1291	3,11092,62422,6642
	33,62713,9265
1292	3,11126,25136,5907
	33,60112,2133
1293	3,11159,85248,8040
	33,57514,5229
1294	3,11193,42763,3169
	33,54920,8458
1295	3,11226,97684,1727
	33,52331,1730
1296	3,11260,50015,3457
	33,49745,4951
1297	3,11293,99760,8408
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1303	3,11494,44157,1259
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1304	3,11527,75913,9590
	33,29202,7840
1305	3,11561,05116,7430
	33,26652,6476
1306	3,11594,31769,3906
	33,24106,4149
1307	3,11627,55875,8055
	33,21564,0770
1308	3,11660,77439,8825
	33,19025,6251
1309	3,11693,96465,5076
	33,16491,0501
1310	3,11727,12956,5577
	33,13960,3432
1311	3,11760,26916,9009
	33,11433,4956
1312	3,11793,38350,3965
	33,08910,4984
1313	3,11826,47260,8949
	33,06391,3428
1314	3,11859,53652,2377
	33,03876,0201
1315	3,11892,57528,2578
	33,01364,5217
1316	3,11925,58892,7795
	32,98856,8384
1317	3,11958,57749,6179
	32,96352,9621
1318	3,11991,54102,5800
	32,93852,8838
1319	3,12024,47955,4638
	32,91356,5947
1320	3,12057,39312,0585
	32,88864,0868
1321	3,12090,28176,1453
	32,86375,3510
1322	3,12123,14551,4963
	32,83890,3788
1323	3,12155,98441,8751
	32,81409,1618
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1326	3,12254,35240,6875
	32,73987,9568
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	32,71521,6756
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1333	3,12483,01494,1386
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1334	3,12515,58295,8053
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1335	3,12548,12657,0059
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1336	3,12580,64581,3953
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1337	3,12613,14072,6199
	32,47061,6982
1338	3,12645,61134,3181
	32,44635,8020
1339	3,12678,05770,1201
	32,42213,5280
1340	3,12710,47983,6481
	32,39794,8679
1341	3,12742,87778,5160
	32,37379,8137
1342	3,12775,25158,3297
	32,34968,3574
1343	3,12807,60126,6871
	32,32560,4909
1344	3,12839,92687,1780
	32,30156,2063
1345	3,12872,22843,3843
	32,27755,4953
1346	3,12904,50598,8796
	32,25358,3502
1347	3,12936,75957,2298
	32,22964,7632
1348	3,12968,98921,9930
	32,20574,7261
1349	3,13001,19496,7191
	32,18188,2309
1350	3,13033,37684,9500
	32,15805,2703
1351	3,13065,53490,2203
	32,13425,8359
1352	3,13097,66916,0562
	32,11049,9200
1353	3,13129,77965,9762
	32,08677,5151
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1355	3,13193,92952,1042
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1356	3,13225,96895,3104
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1362	3,13417,71075,7677
	31,87482,5791
1363	3,13449,58558,3468
	31,85144,8577
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1371	3,13703,74547,8952
	31,66565,8122
1372	3,13735,41113,7074
	31,64258,6602
1373	3,13767,05372,3676
	31,61954,8678
1374	3,13798,67327,2354
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	31,57357,3221
1376	3,13861,84338,9950
	31,55063,5743
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	31,50486,0425
1379	3,13956,42661,7587
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	31,45921,7739
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1382	3,14050,80430,3818
	31,41370,7113
1383	3,14082,21801,0931
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1384	3,14113,60901,2074
	31,36832,7972
1385	3,14144,97734,0046
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1386	3,14176,32302,7579
	31,32307,9750
1387	3,14207,64610,7329
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1388	3,14238,94661,1884
	31,27796,1878
1389	3,14270,22457,3762
	31,25545,1648
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	31,23297,3795
1391	3,14332,71299,9205
	31,21052,8250
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	31,18811,4941
1393	3,14395,11164,2397
	31,16573,3801
1394	3,14426,27737,6199
	31,14338,4763
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	31,12106,7753
1396	3,14488,54182,8715
	31,09878,2704
1397	3,14519,64061,1419
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1405	3,14767,63242,4110
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1411	3,14952,70137,5435
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1412	3,14983,46967,1579
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1413	3,15014,21618,4856
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1414	3,15044,94094,6088
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1415	3,15075,64393,6031
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1416	3,15106,32533,5375
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	30,63805,9959
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1438	3,15775,88860,4687
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1439	3,15805,07939,3661
	30,16981,5864
1440	3,15836,24920,9525
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1441	3,15866,39808,1399
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1443	3,15926,63310,9348
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1446	3,16016,82929,5850
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1448	3,16076,85618,6111
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1449	3,16106,83854,7116
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1450	3,16136,80022,3497
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1452	3,16196,66163,6407
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1453	3,16226,56142,9802
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1454	3,16256,44065,2302
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1467	3,16643,01138,4330
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1469	3,16702,17957,9027
	29,55389,5791
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1476	3,16908,63574,8702
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1477	3,16938,04953,1195
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1479	3,16996,81739,9689
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1480	3,17026,17153,9496
	29,33431,2625
1481	3,17055,50585,2121
	29,31451,2211
1482	3,17084,82036,4332
	29,29473,8508
1483	3,17114,11510,2840
	29,27499,1462
1484	3,17143,39009,4302
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1485	3,17172,64536,5324
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1486	3,17201,88094,2457
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1487	3,17231,09685,2197
	29,19626,8790
1488	3,17260,29312,0987
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	29,09845,8838
1493	3,17405,98077,2504
	29,07897,5435
1494	3,17435,05974,7939
	29,05951,8107
1495	3,17464,11926,6046
	29,04008,6799
1496	3,17493,15935,2845
	29,02068,1461
1497	3,17522,18003,4306
	29,00130,2039
1498	3,17551,18133,6345
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1499	3,17580,16328,4829
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1504	3,17724,78362,5561 28,86636,7425
1505	3,17753,64999,2986 28,84719,3482
1506	3,17782,49718,6468 28,82804,4995
1507	3,17811,32523,1463 28,80892,1913
1508	3,17840,13415,3376 28,78982,4183
1509	3,17868,92397,7559 28,77075,1757
1510	3,17897,69472,9317 28,75170,4586
1511	3,17926,44643,3903 28,73268,2616
1512	3,17955,17911,6519 28,71368,5800
1513	3,17983,89280,2319 28,69471,4087
1514	3,18012,58751,6406 28,67576,7427
1515	3,18041,26328,3833 28,65684,5772
1516	3,18069,92012,9605 28,63794,9070
1517	3,18098,55807,8675 28,61907,7273
1518	3,18127,17715,5948 28,60023,0332
1519	3,18155,77738,6280 28,58140,8197
1520	3,18184,35879,4477 28,56261,0823
1521	3,18212,92140,5300 28,54383,8155
1522	3,18241,46524,3455 28,52509,0148
1523	3,18269,99033,3603 28,50636,6755
1524	3,18298,49670,0358 28,48766,7923
1525	3,18326,98436,8281 28,46899,3605
1526	3,18355,45336,1886 28,45034,3756
1527	3,18383,90370,5642 28,43171,8325
1528	3,18412,33542,3967 28,41311,7265
1529	3,18440,74854,1232 28,39454,0528
1530	3,18469,14308,1760 28,37598,8066
1531	3,18497,51906,9826 28,35745,9832
1532	3,18525,87652,9658 28,33895,5779
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1534	3,18582,53596,1296 28,30202,0024

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1537	3,18667,38674,9975 28,24679,6567
1538	3,18695,63354,5542 28,22843,6607
1539	3,18723,86198,3149 28,21010,0499
1540	3,18752,07208,3648 28,19178,8196
1541	3,18780,26387,1844 28,17349,9652
1542	3,18808,43737,1496 28,15523,4820
1543	3,18836,59260,6316 28,13699,3657
1544	3,18864,72959,9973 28,11877,6114
1545	3,18892,84837,6087 28,10058,2146
1546	3,18920,94895,8233 28,08241,1706
1547	3,18949,03136,9939 28,06426,4750
1548	3,18977,09563,4689 28,04614,1232
1549	3,19005,14177,5921 28,02804,1108
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1551	3,16061,17978,1360 27,99191,0856
1552	3,19089,17169,2216 27,97388,0639
1553	3,19117,14557,2855 27,95587,3634
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1556	3,19200,95926,5367 27,90199,1445
1557	3,19228,86125,6811 27,88407,6842
1558	3,19256,74533,3054 27,86618,5229
1559	3,19284,61151,8883 27,84831,6563
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1562	3,19368,10295,4128 27,79484,7791
1563	3,19395,89780,1919 27,77707,0465
1564	3,19423,67487,2384 27,75931,5864
1565	3,19451,43418,8248 27,74158,3945
1566	3,19479,17577,2193 27,72387,4666
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1570	3,19589,96524,0923 27,65326,3074
1571	3,19617,61850,3997 27,63566,6342
1572	3,19645,25417,0339 27,61809,1990
1573	3,19672,87226,2329 27,60053,9976
1574	3,19700,47280,2305 27,58301,0257
1575	3,19728,05581,2562 27,56550,2791
1576	3,19755,62131,5353 27,54801,7537
1577	3,19783,16933,2890 27,53055,4450
1578	3,19810,69988,7340 27,51311,3489
1579	3,19838,21300,0829 27,49569,4613
1580	3,19865,70869,5442 27,47829,7779
1581	3,19893,18699,3221 27,46092,2945
1582	3,19920,64791,6166 27,44357,0069
1583	3,19948,09148,6235 27,42623,9112
1584	3,19975,51772,5347 27,40893,0030
1585	3,20002,92665,5377 27,39164,2781
1586	3,20030,31829,8158 27,37437,7326
1587	3,20057,69267,5484 27,35713,3624
1588	3,20085,04980,9108 27,33991,1631
1589	3,20112,38972,0739 27,32271,1306
1590	3,20139,71243,2045 27,30553,2613
1591	3,20167,01796,4658 27,28837,5506
1592	3,20194,30634,0164 27,27123,9948
1593	3,20221,57758,0112 27,25412,5897
1594	3,20248,83170,6009 27,23703,3310
1595	3,20276,06873,9319 27,21996,2151
1596	3,20303,28870,1470 27,20291,2377
1597	3,20330,49161,3847 27,18588,3949
1598	3,20357,67749,7796 27,16887,6826
1599	3,20384,84637,4621 27,15189,0970
1600	3,20411,99826,5592 27,13492,6337

Num. absolu.	Logarithmi.
1601	3,20439,13319,1929 27,11798,2892
1602	3,20466,25117,4821 27,10106,0593
1603	3,20493,35223,5414 27,08415,9401
1604	3,20520,43639,4815 27,06727,9274
1605	3,20547,50367,4089 27,05042,0177
1606	3,20574,55409,4266 27,03358,2068
1607	3,20601,58767,6334 27,01676,4909
1608	3,20628,60444,1243 26,99996,8660
1609	3,20655,60440,9903 26,98319,3282
1610	3,20682,58760,3185 26,96643,8736
1611	3,20709,55404,1921 26,94970,4986
1612	3,20736,50374,6907 26,93299,1989
1613	3,20763,43673,8896 26,91629,9709
1614	3,20790,35303,8605 26,89962,8107
1615	3,20817,25266,6712 26,88297,7145
1616	3,20844,13564,3857 26,86634,6783
1617	3,20871,00199,0640 26,84973,6986
1618	3,20897,85172,7626 26,83314,7711
1619	3,20924,68487,5337 26,81657,8926
1620	3,20951,50145,4263 26,80003,0588
1621	3,20978,30148,4851 26,78350,2663
1622	3,21005,08498,7514 26,76699,5110
1623	3,21031,85198,2624 26,75050,7892
1624	3,21058,60249,0516 26,73404,0974
1625	3,21085,33653,1490 26,71759,4316
1626	3,21112,05412,5806 26,70116,7881
1627	3,21138,75529,3687 26,68476,1632
1628	3,21165,44005,5319 26,66837,5533
1629	3,21192,10843,0852 26,65200,9544
1630	3,21218,76044,0396 26,63566,3632
1631	3,21245,39610,4028 26,61933,7757
1632	3,21272,01544,1785 26,60303,1882
1633	3,21298,61847,3667 26,58674,5972
1634	3,21325,20521,9639 26,57047,9991
1635	3,21351,77569,9630 26,55423,3900
1636	3,21378,32993,3530 26,53800,7662
1637	3,21404,86794,1193 26,52180,1247
1638	3,21431,38974,1440 26,50561,4611
1639	3,21457,89535,7051 26,48944,7719
1640	3,21484,38480,4770 26,47330,0540
1641	3,21510,85810,5310 26,45717,3033
1642	3,21537,31527,8343 26,44106,5163
1643	3,21563,75634,3506 26,42497,6897
1644	3,21590,18132,0403 26,40890,8196
1645	3,21616,59022,8599 26,39285,9026
1646	3,21642,98308,7625 26,37682,9350
1647	3,21669,35991,6975 26,36081,9134
1648	3,21695,72073,6109 26,34482,8342
1649	3,21722,06556,4451 26,32885,6939
1650	3,21748,39442,1390 26,31290,4890
1651	3,21774,70732,6281 26,29697,2157
1652	3,21801,00429,8438 26,28105,8708
1653	3,21827,28535,7146 26,26516,4508
1654	3,21853,55052,1654 26,24928,9521
1655	3,21879,79981,1175 26,23343,3712
1656	3,21906,03324,4887 26,21759,7048
1657	3,21932,25084,1935 26,20177,9492
1658	3,21958,45262,1427 26,18598,1010
1659	3,21984,63860,2437 26,17020,1569
1660	3,22010,80880,4006 26,15444,1136
1661	3,22036,96324,5142 26,13869,9668
1662	3,22063,10194,4810 26,12297,7142
1663	3,22089,22492,1952 26,10727,3519
1664	3,22115,33219,5471 26,09158,8764
1665	3,22141,42378,4235 26,07592,2843
1666	3,22167,49970,7078 26,06027,5723
1667	3,22193,55998,2801 26,04464,7372
1667	3,22193,55998,2801 26,04464,7372
1668	3,22219,60463,0173 26,02903,7752
1669	3,22245,63366,7925 26,01344,6833
1670	3,22271,64711,4758 25,99787,4581
1671	3,22297,64498,9339 25,98232,0961
1672	3,22323,62731,0300 25,96678,5940
1673	3,22349,59409,6240 25,95126,9484
1674	3,22375,54536,5724 25,93577,1562
1675	3,22401,48113,7286 25,92029,2139
1676	3,22427,40142,9425 25,90483,1183
1677	3,22453,30626,0608 25,88938,8661
1678	3,22479,19564,9269 25,87396,4537
1679	3,22505,06961,3806 25,85855,8780
1680	3,22530,92817,2586 25,84317,1360
1681	3,22556,77134,3946 25,82780,2242
1682	3,22582,59914,6188 25,81245,1394
1683	3,22608,41159,7582 25,79711,8781
1684	3,22634,20871,6363 25,78180,4372
1685	3,22659,99052,0735 25,76650,8137
1686	3,22685,75702,8872 25,75123,0040
1687	3,22711,50825,8912 25,73597,0051
1688	3,22737,24422,8963 25,72072,8137
1689	3,22762,96495,7100 25,70550,4267
1690	3,22788,67046,1367 25,69029,8407
1691	3,22814,36075,9774 25,67511,0526
1692	3,22840,03587,0300 25,65994,0593
1693	3,22865,69581,0893 25,64478,8576
1694	3,22891,34059,9469 25,62965,4442
1695	3,22916,97025,3911 25,61453,8159
1696	3,22942,58479,2070 25,59943,9698
1697	3,22968,18423,1768 25,58435,9026
1698	3,22993,76859,0794 25,56929,6111
1699	3,23019,33788,6905 25,55425,0922
1700	3,23044,89213,7827 25,53922,3430

Num. absolu.	Logarithmi.
1701	3,23070,43136,1257
	25,52421,3600
1702	3,23095,95557,4857
	25,50922,1403
1703	3,23121,46479,6260
	25,49424,6808
1704	3,23146,95904,3068
	25,47928,9784
1705	3,23172,43833,2852
	25,46435,0299
1706	3,23197,90268,3151
	25,44942,8322
1707	3,23223,35211,1473
	25,43452,3825
1708	3,23248,78663,5298
	25,41963,6775
1709	3,23274,20627,2073
	25,40476,7142
1710	3,23299,61103,9215
	25,38991,4895
1711	3,23325,00095,4110
	25,37508,0003
1712	3,23350,37603,4113
	25,36026,2438
1713	3,23375,73629,6551
	25,34546,2167
1714	3,23401,08175,8718
	25,33067,9161
1715	3,23426,41243,7879
	25,31591,3389
1716	3,23451,72835,1268
	25,30116,4823
1717	3,23477,02951,6091
	25,28643,3431
1718	3,23502,31594,9522
	25,27171,9183
1719	3,23527,58766,8705
	25,25702,2050
1720	3,23552,84469,0755
	25,24234,2000
1721	3,23578,08703,2755
	25,22767,9008
1722	3,23603,31471,1763
	25,21303,3040
1723	3,23628,52774,4803
	25,19840,4067
1724	3,23653,72614,8870
	25,18379,2059
1725	3,23678,90994,0929
	25,16919,6990
1726	3,23704,07913,7919
	25,15461,8827
1727	3,23729,23375,6746
	25,14005,7541
1728	3,23754,37381,4287
	25,12551,3105
1729	3,23779,49932,7392
	25,11098,5487
1730	3,23804,61031,2880
	25,09647,4660
1731	3,23829,70678,7540
	25,08198,0594
1732	3,23854,78876,8134
	25,06750,3258
1733	3,23879,85627,1392
	25,05304,2628
1734	3,23904,90931,4020
	25,03859,8671
1735	3,23929,94791,2691
	25,02417,1357
1736	3,23954,97208,4048
	25,00976,0662
1737	3,23979,98184,4710
	24,99536,6556
1738	3,24004,97721,1266
	24,98098,9007
1739	3,24029,95820,0273
	24,96662,7987
1740	3,24054,92482,8260
	24,95228,3473
1741	3,24079,87711,1733
	24,93795,5431
1742	3,24104,81506,7164
	24,92364,3835
1743	3,24129,73871,0999
	24,90934,8656
1744	3,24154,64805,9655
	24,89506,9865
1745	3,24179,54312,9520
	24,88080,7435
1746	3,24204,42393,6955
	24,86656,1338
1747	3,24229,29049,8293
	24,85233,1545
1748	3,24254,14282,9838
	24,83811,8029
1749	3,24278,98094,7867
	24,82392,0762
1750	3,24303,80486,8629
	24,80973,9715
1751	3,24328,61460,8344
	24,79557,4862
1752	3,24353,41018,3206
	24,78142,6173
1753	3,24378,19160,9379
	24,76729,3623
1754	3,24402,95890,3002
	24,75317,7182
1755	3,24427,71208,0184
	24,73907,6824
1756	3,24452,45115,7008
	24,72499,2522
1757	3,24477,17614,9530
	24,71092,4246
1758	3,24501,88707,3776
	24,69687,1970
1759	3,24526,58394,5746
	24,68283,5669
1760	3,24551,26678,1415
	24,66881,5313
1761	3,24575,93559,6728
	24,65481,0875
1762	3,24600,59040,7603
	24,64082,2329
1763	3,24625,23122,9932
	24,62684,9648
1764	3,24649,85807,9580
	24,61289,2804
1765	3,24674,47097,2384
	24,59895,1771
1766	3,24699,06992,4155
	24,58502,6521
1767	3,24723,65495,0676
	24,57111,7029
1768	3,24748,22606,7705
	24,55722,3267
1769	3,24772,78329,0972
	24,54334,5209
1770	3,24797,32663,6181
	24,52948,2827
1771	3,24821,85611,9008
	24,51563,6095
1772	3,24846,37175,5103
	24,50180,4989
1773	3,24870,87356,0092
	24,48798,9479
1774	3,24895,36154,9571
	24,47418,9540
1775	3,24919,83573,9111
	24,46040,5147
1776	3,24944,29614,4258
	24,44663,6272
1777	3,24968,74278,0530
	24,43288,2889
1778	3,24993,17566,3419
	24,41914,4973
1779	3,25017,59480,8391
	24,40542,2497
1780	3,25042,00023,0889
	24,39171,5435
1781	3,25066,39194,6324
	24,37802,3762
1782	3,25090,76997,0086
	24,36434,7450
1783	3,25115,13431,7536
	24,35068,6475
1784	3,25139,48500,4011
	24,33704,0810
1785	3,25163,82204,4821
	24,32341,0431
1786	3,25188,14545,5252
	24,30979,5312
1787	3,25212,45525,0564
	24,29619,5426
1788	3,25236,75144,5990
	24,28261,0747
1789	3,25261,03405,6737
	24,26904,1252
1790	3,25285,30309,7989
	24,25548,6914
1791	3,25309,55858,4903
	24,24194,7708
1792	3,25333,80053,2611
	24,22842,3608
1793	3,25358,02895,6219
	24,21491,4589
1794	3,25382,24387,0808
	24,20142,0627
1795	3,25406,44529,1435
	24,18794,1694
1796	3,25430,63323,3129
	24,17447,7768
1797	3,25454,80771,0897
	24,16102,8824
1798	3,25478,96873,9721
	24,14759,4834
1799	3,25503,11633,4555
	24,13417,5776
1800	3,25527,25051,0331
	24,12077,1622

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1801	3,25551,37128,1953
	24,10738,2352
1802	3,25575,47866,4305
	24,09400,7936
1803	3,25599,57267,2241
	24,08064,8352
1804	3,25623,65332,0593
	24,06730,3576
1805	3,25647,72062,4169
	24,05397,3580
1806	3,25671,77459,7749
	24,04065,8243
1807	3,25695,81525,6092
	24,02735,7842
1808	3,25719,84261,3934
	24,01407,2048
1809	3,25743,85668,5982
	24,00080,0936
1810	3,35767,85748,6918
	23,98754,4487
1811	3,25791,84503,1405
	23,97430,2674
1812	3,25815,81933,4079
	23,96107,5472
1813	3,25839,78040,9551
	23,94786,2857
1814	3,25863,72827,2408
	23,93466,4805
1815	3,25887,66293,7213
	23,92148,1294
1816	3,25911,58441,8507
	23,90831,2297
1817	3,25935,49273,0804
	23,89515,7791
1818	3,25959,38788,8595
	23,88201,7753
1819	3,25983,26990,6348
	23,86889,2159
1820	3,26007,13879,8507
	23,85578,0985
1821	3,26030,99457,9492
	23,84268,4205
1822	3,26054,83726,3697
	23,82960,1799
1823	3,26078,66686,5496
	23,81653,3742
1824	3,26102,48339,9238
	23,80348,0010
1825	3,26126,28687,9248
	23,79044,0579
1826	3,26150,07731,9827
	23,77741,5426
1827	3,26173,85473,5253
	23,76440,4527
1828	3,26197,61913,9780
	23,75140,7860
1829	3,26221,37054,7640
	23,73842,5402
1830	3,26245,10897,3043
	23,72545,7127
1831	3,26268,83443,0170
	23,71250,3013
1832	3,26292,54693,3183
	23,69956,3039
1833	3,26316,24649,6222
	23,68663,7179
1834	3,26339,93313,3401
	23,67372,5411

Num. absolu.	Logarithmi.
1834	3,26339,93313,3401
	23,67372,5411
1835	3,26363,60685,8812
	23,66082,7711
1836	3,26387,26768,6523
	23,64794,4058
1837	3,26410,91563,0581
	23,63507,4428
1838	3,26434,55070,5009
	23,62221,8798
1839	3,26458,17292,3807
	23,60937,7146
1840	3,26481,78230,0953
	23,59654,9448
1841	3,26505,37885,0401
	23,58373,5681
1842	3,26528,96258,6082
	23,57093,5825
1843	3,26552,53352,1907
	23,55814,9854
1844	3,26576,09167,1761
	23,54537,7747
1845	3,26599,63704,9508
	23,53261,9481
1846	3,26623,16966,8989
	23,51987,5035
1847	3,26646,68954,4024
	23,50714,4385
1848	3,26670,19668,8409
	23,49442,7508
1849	3,26693,69111,5917
	23,48172,4384
1850	3,26717,17284,0301
	23,46903,4990
1851	3,26740,64187,5291
	23,45635,9301
1852	3,26764,09823,4592
	23,44369,7298
1853	3,26787,54193,1890
	23,43104,8958
1854	3,26810,97298,0848
	23,41841,4259
1855	3,26834,39139,5107
	23,40579,3178
1856	3,26857,79718,8285
	23,39318,5693
1857	3,26881,19037,3978
	23,38059,1784
1858	3,26904,57096,5762
	23,36801,1427
1859	3,26927,93897,7189
	23,35544,4602
1860	3,26951,29442,1792
	23,34289,1285
1861	3,26974,63731,3077
	23,33035,1456
1862	3,26997,96766,4533
	23,31782,5092
1863	3,27021,28548,9625
	23,30531,2173
1864	3,27044,59080,1798
	23,29281,2675
1865	3,27067,88361,4473
	23,28032,6577
1866	3,27091,16394,1050
	23,26785,3859
1867	3,27114,43179,4909
	23,25539,4500

Num. absolu.	Logarithmi.
1867	3,27114,43179,4909
	23,25539,4500
1868	3,27137,68718,9409
	23,24294,8476
1869	3,27160,93013,7885
	23,23051,5765
1870	3,27184,16065,3650
	23,21809,6351
1871	3,27207,37875,0001
	23,20569,0208
1872	3,27230,58444,0209
	23,19330,7315
1873	3,27253,77773,7524
	23,18091,7652
1874	3,27276,95865,5176
	23,16855,1198
1875	3,27300,12720,6374
	23,15619,7930
1876	3,27323,28340,4304
	23,14385,7830
1877	3,27346,42726,2134
	23,13153,0875
1878	3,27369,55879,3009
	23,11921,7043
1879	3,27392,67801,0052
	23,10691,6316
1880	3,27415,78492,6368
	23,09462,8670
1881	3,27438,87955,5038
	23,08235,4086
1882	3,27461,96190,9124
	23,07009,2543
1883	3,27485,03200,1667
	23,05784,4019
1884	3,27508,08984,5686
	23,04560,8495
1885	3,27531,13545,4181
	23,03338,5950
1886	3,27554,16884,0131
	23,02117,6362
1887	3,27577,19001,6493
	23,00897,9712
1888	3,27600,19899,6205
	22,99679,5978
1889	3,27623,19579,2183
	22,98462,5141
1890	3,27646,18041,7324
	22,97246,7180
1891	3,27669,15288,4504
	22,96032,2073
1892	3,27692,11320,6577
	22,94818,9802
1893	3,27715,06139,6379
	22,93607,0346
1894	3,27737,99746,6725
	22,92396,3684
1895	3,27760,92143,0409
	22,91186,9796
1896	3,27783,83330,0205
	22,89978,8661
1897	3,27806,73308,8866
	22,88772,0261
1898	3,27829,62080,9127
	22,87566,4574
1899	3,27852,49647,3701
	22,86362,1581
1900	3,27875,36009,5282
	22,85159,1262

1901

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1901	3,27898, 21168,6545
	22, 83957, 3596
1902	3,27921, 05126,0141
	22, 82756, 8562
1903	3,27943, 87882,8703
	22, 81557, 6143
1904	3,27966, 69440,4846
	22, 80359, 6318
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1911	3,28126, 06870,5502
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1941	3,28802, 55353,8837
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1973	3,29512, 70852, 5219
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2224	3,34713,47829,1002
	19,52324,0693
2225	3,34733,00153,1695
	19,51446,8174
2226	3,34752,51599,9869
	19,50570,3535
2227	3,34772,02170,3404
	19,49694,6765
2228	3,34791,51865,0169
	19,48819,7855
2229	3,34811,00684,8024
	19,47945,6792
2230	3,34830,48630,4816
	19,47072,3567
2231	3,34849,95701,8383
	19,46199,8170
2232	3,34869,41902,6553
	19,45328,0590
2233	3,34888,87230,7143
	19,44457,0815
2234	3,34908,31687,7958
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2235	3,34927,75274,6794
	19,42717,4643
2236	3,34947,17992,1437
	19,41848,8225
2237	3,34966,59840,9662
	19,40980,9570
2238	3,34986,00821,9232
	19,40113,8670
2239	3,35005,40935,7902
	19,39247,5513
2240	3,35024,80183,3416
	19,38382,0090
2241	3,35044,18565,3506
	19,37517,2389
2242	3,35063,56082,5895
	19,36653,2401
2243	3,35082,92735,8296
	19,35790,0116
2244	3,35102,28525,8412
	19,34927,5522
2245	3,35121,63453,3934
	19,34065,8610
2246	3,35140,97519,2544
	19,33204,9369
2247	3,35160,30724,1913
	19,32344,7790
2248	3,35179,63068,9703
	19,31485,3861
2249	3,35198,94554,3564
	19,30626,7572
2250	3,35218,25181,1136
	19,29768,8915
2251	3,35237,54950,0051
	19,28911,7879
2252	3,35256,83861,7930
	19,28055,4453
2253	3,35276,11917,2383
	19,27199,8626
2254	3,35295,39117,1009
	19,26345,0389
2255	3,35314,65462,1398
	19,25490,9732
2256	3,35333,90953,1130
	19,24637,6645
2257	3,35353,15590,7775
	19,23785,1119
2258	3,35372,39375,8894
	19,22933,3142
2259	3,35391,62309,2036
	19,22082,2704
2260	3,35410,84391,4740
	19,21231,9796
2261	3,35430,05623,4536
	19,20382,4408
2262	3,35449,26005,8944
	19,19533,6529
2263	3,32468,45539,5473
	19,18685,6150
2264	3,35487,64215,1623
	19,17838,3261
2265	3,35506,82063,4884
	19,16991,7853
2266	3,35525,99055,2737
	19,16145,9914
2267	33,55455,15201,2651
	19,15300,9435

Num. absolu.	Logarithmi.
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2268	3,35564,30502,2086
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2269	3,35583,44958,8493
	19,13613,0820
2270	3,35602,58571,9313
	19,12770,2661
2271	3,35621,71342,1974
	19,11928,1924
2272	3,35640,83270,3898
	19,11086,8598
2273	3,35659,94357,2496
	19,10246,2675
2274	3,35679,04603,5171
	19,09406,4142
2275	3,35698,14009,9313
	19,08567,2990
2276	3,35717,22577,2303
	19,07728,9211
2277	3,35736,30306,1514
	19,06891,2794
2278	3,35755,37197,4308
	19,06054,3729
2279	3,35774,43251,8037
	19,05218,2008
2280	3,35793,48470,0045
	19,04382,7619
2281	3,35812,52852,7664
	19,03548,0555
2282	3,35831,56400,8219
	19,02714,0804
2283	3,35850,59114,9023
	19,01880,8358
2284	3,35869,60995,7381
	19,01048,3206
2285	3,35888,62044,0587
	19,00216,5339
2286	3,35907,62260,5926
	18,99385,4748
2287	3,35926,61646,0674
	18,98555,1424
2288	3,35945,60201,2098
	18,97725,5356
2289	3,35964,57926,7454
	18,96896,6534
2290	3,35983,54823,3988
	18,96068,4951
2291	3,36002,50891,8939
	18,95241,0595
2292	3,36021,46132,9534
	18,94414,3459
2293	3,36040,40547,2993
	18,93588,3531
2294	3,36059,34135,6524
	18,92763,0803
2295	3,36078,26898,7327
	18,91938,5265
2296	3,36097,18837,2592
	18,91114,6909
2297	3,36116,09951,9501
	18,90291,5724
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2305	3,36267,09297,2567 18,83732,3301
2306	3,36285,93029,5868 18,82915,6241
2307	3,36304,75945,2109 18,82099,6260
2308	3,36323,58044,8369 18,81284,3348
2309	3,36342,39329,1717 18,80469,7497
2310	3,36361,19798,9214 18,79655,8696
2311	3,36379,99454,7910 18,78842,6939
2312	3,36398,78297,4849 18,78030,2213
2313	3,36417,56327,7062 18,77218,4511
2314	3,36436,33546,1573 18,76407,3824
2315	3,36455,09953,5397 18,75597,0143
2316	3,36473,85550,5540 18,74787,3458
2317	3,36492,60337,8998 18,73978,3760
2318	3,36511,34316,2758 18,73170,1041
2319	3,36530,07486,3799 18,72362,5291
2320	3,36548,79848,9090 18,71555,6502
2321	3,36567,51404,5592 18,70749,4663
2322	3,36586,22154,0255 18,69943,9768
2323	3,36604,92098,0023 18,69139,1806
2324	3,36623,61237,1829 18,68335,0768
2325	3,36642,29572,2597 18,67531,6646
2326	3,36660,97103,9243 18,66728,9430
2327	3,36679,63832,8673 18,65926,9112
2328	3,36698,29759,7785 18,65125,5683
2329	3,36716,94885,3468 18,64324,9134
2330	3,36735,59210,2602 18,63524,9456
2331	3,36754,22735,2058 18,62725,6640
2332	3,36772,85460,8698 18,61927,0677
2333	3,36791,47387,9375 18,61129,1560
2334	3,36810,08517,0935 18,60331,9278

Num. absolu.	Logarithmi.
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2336	3,36847,28384,4036 18,58739,5186
2337	3,36865,87123,9222 18,57944,3360
2338	3,36884,45068,2582 18,57149,8333
2339	3,36903,02218,0915 18,56356,0099
2340	3,36921,58574,1014 18,55562,8648
2341	3,36940,14136,9662 18,54770,3972
2342	3,36958,68907,3634 18,53978,6062
2343	3,36977,22885,9696 18,53187,4909
2344	3,36995,76073,4605 18,52397,0505
2345	3,37014,28470,5110 18,51607,2841
2346	3,37032,80077,7951 18,50818,1908
2347	3,37051,30895,9859 18,50029,7698
2348	3,37069,80925,7557 18,49242,0203
2349	3,37088,30167,7760 18,48454,9413
2350	3,37106,78622,7174 18,47668,5320
2351	3,37125,26291,2494 18,46882,7916
2352	3,37143,73174,0410 18,46097,7193
2353	3,37162,19271,7603 18,45313,3139
2354	3,37180,64585,0742 18,44529,5750
2355	3,37199,09114,6492 18,43746,5015
2356	3,37217,52861,1507 18,42964,0926
2357	3,37235,95825,2433 18,42182,3475
2358	3,37254,38007,5908 18,41401,2653
2359	3,37272,79408,8561 18,40620,8451
2360	3,37291,20029,7011 18,39841,0862
2361	3,37309,59870,7873 18,39061,9877
2362	3,37327,98932,7750 18,38283,5487
2363	3,37346,37216,3237 18,37505,7685
2364	3,37364,74722,0922 18,36728,6461
2365	3,37383,11450,7383 18,35952,1808
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2367	3,37419,82579,2908 18,34401,2180

Num. absolu	Logarithmi.
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2370	3,37474,83460,1010 18,32079,6808
2371	3,37493,15539,7818 18,31307,1404
2372	3,37511,46846,9222 18,30535,2512
2373	3,37529,77382,1734 18,29764,0123
2374	3,37548,07146,1857 18,28993,4231
2375	3,37566,36139,6088 18,28223,4827
2376	3,37584,64363,0915 18,27454,1903
2377	3,37602,91817,2818 18,26685,5450
2378	33,7621,18502,8268 18,25917,5460
2379	3,37639,44420,3728 18,25150,1924
2380	3,37657,69570,5651 18,24383,4836
2381	3,37675,93954,0487 18,23617,4188
2382	33,7694,17571,4675 18,22851,9970
2383	3,37712,40423,4645 18,22087,2174
2384	3,37730,62510,6819 18,21323,0793
2385	3,37748,83833,7612 18,20559,5819
2386	3,37767,04393,3431 18,19796,7243
2387	3,37785,24190,0674 18,19034,5058
2388	3,37803,43224,5732 18,18272,9256
2389	3,37821,61497,4988 18,17511,9827
2390	3,37839,79009,4816 18,16751,6763
2391	3,37857,95761,1579 18,15992,0059
2392	3,37876,11753,1638 18,15232,9706
2393	3,37894,26986,1344 18,14474,5695
2394	3,37912,41460,7039 18,13716,8019
2395	3,37930,55177,5058 18,12959,6669
2396	3,37948,68137,1727 18,12203,1638
2397	3,37966,80340,3365 18,11447,2918
2398	3,37984,91787,6283 18,10692,0500
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2404	3,38093,44633,3071
	18,06173,7915
2405	3,38111,50807,0986
	18,05422,9398
2406	3,38129,56230,0384
	18,04672,7120
2407	3,38147,60902,7504
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2408	3,38165,64825,8580
	18,03174,1256
2409	3,38183,67999,9836
	18,02425,7652
2410	3,38201,70425,7487
	18,01678,0258
2411	3,38219,72103,7745
	18,00930,9066
2412	3,38237,73034,6811
	18,00184,4068
2413	3,38255,73219,0879
	17,99438,5254
2414	3,38273,72657,6133
	17,98693,2620
2415	3,38291,71350,8753
	17,97948,6156
2416	3,38309,69299,4909
	17,97204,5855
2417	3,38327,66504,0764
	17,96461,1711
2418	3,38345,62965,2475
	17,95718,3713
2419	3,38363,58683,6188
	17,94976,1855
2420	3,38381,53659,8043
	17,94234,6130
2421	3,38399,47894,4173
	17,93493,6531
2422	3,38417,41388,0704
	17,92753,3047
2423	3,38435,34141,3751
	17,92013,5674
2424	3,38453,26154,9425
	17,91274,4403
2425	3,38471,17429,3828
	17,90535,9228
2426	3,38489,07965,3056
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2427	3,38506,97763,3194
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2428	3,38524,86824,0323
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2429	3,38542,75148,0514
	17,87587,9318
2430	3,38560,62735,9831
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2431	3,38578,49588,4333
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2432	3,38596,35706,0069
	17,85383,3011
2433	3,38614,21089,3080
	17,84649,6323
2434	3,38632,05738,9403
	17,83916,5661
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	17,83916,5661
2435	3,38649,89655,5064
	17,83184,1018
2436	3,38667,72839,6082
	17,82452,2389
2437	3,38685,55291,8471
	17,81720,9764
2438	3,38703,37012,8235
	17,80990,3137
2439	3,38721,18003,1372
	17,80260,2500
2440	3,38738,98263,3873
	17,79530,7846
2441	3,38756,77794,1719
	17,78801,9167
2442	3,38774,56596,0886
	17,78073,6458
2443	3,38792,34669,7344
	17,77345,9708
2444	3,38810,12015,7052
	17,76618,8912
2445	3,38827,88634,5964
	17,75892,4063
2446	3,38845,64527,0027
	17,75166,5152
2447	3,38863,39693,5179
	17,74441,2173
2448	3,38881,14134,7352
	17,73716,5119
2449	3,38898,87851,2471
	17,72992,3982
2450	3,38916,60843,6453
	17,72268,8754
2451	3,38934,33112,5207
	17,71545,9430
2452	3,38952,04658,4637
	17,70823,6001
2453	3,38969,75482,0638
	17,70101,8460
2454	3,38987,45583,9098
	17,69380,6800
2455	3,39005,14964,5898
	17,68660,1014
2456	3,39022,83624,6912
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2457	3,39040,51564,8007
	17,67220,7035
2458	3,39058,18785,5042
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2459	3,39075,85287,3871
	17,65783,6467
2460	3,39093,51071,0338
	17,65065,9943
2461	3,39111,16137,0281
	17,64348,9250
2462	3,39128,80485,9531
	17,63632,4380
2463	3,39146,44118,3911
	17,62916,5328
2464	3,39164,07034,9239
	17,62201,2086
2465	3,39181,69236,1325
	17,61486,4647
2466	3,39199,30722,5972
	17,60772,3002
2467	3,39216,91494,8974
	17,60058,7147
2467	3,39216,91494,8974
	17,60058,7147
2468	3,39234,51553,6121
	17,59345,7073
2469	3,39252,10899,3194
	17,58633,2773
2470	3,39269,69532,5967
	17,57921,4242
2471	3,39287,27454,0209
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2472	3,39304,84664,1678
	17,56499,4452
2473	3,39322,41163,6130
	17,55789,3180
2474	3,39339,96952,9310
	17,55079,7648
2475	3,39357,52032,6958
	17,54370,7850
2476	3,39375,06403,4808
	17,53662,3776
2477	3,39392,60065,8584
	17,52954,5421
2478	3,39410,13020,4005
	17,52247,2778
2479	3,39427,65267,6783
	17,51540,5839
2480	3,39445,16808,2622
	17,50834,4699
2481	3,39462,67642,7321
	17,50128,9050
2482	3,39480,17771,6371
	17,49423,9185
2483	3,39497,67195,5556
	17,48719,4998
2484	3,39515,15915,0554
	17,48015,6481
2485	3,39532,63930,7035
	17,47312,3628
2486	3,39550,11243,0663
	17,46609,6431
2487	3,39567,57852,7094
	17,45907,4885
2488	3,39585,03760,1979
	17,45205,8981
2489	3,39602,48966,0960
	17,44504,8714
2490	3,39619,93470,9574
	17,43804,4077
2491	3,39637,37275,3651
	17,43104,5063
2492	3,39654,80379,8714
	17,42405,1664
2493	3,39672,22785,0378
	17,41706,3875
2494	3,39689,64491,4253
	17,41008,1688
2495	3,39707,05499,5941
	17,40310,5098
2496	3,39724,45810,1039
	17,39613,4097
2497	3,39741,85423,5136
	17,38916,8676
2498	3,39759,24340,3812
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2503	3,39846,08496,0823
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2504	3,39863,43245,3840
	17,34056,6486
2505	3,39880,77302,0326
	17,33364,5486
2506	3,39898,10666,5812
	17,32673,0009
2507	3,39915,43339,5821
	17,31982,0047
2508	3,39932,75321,5868
	17,31291,5594
2509	3,39950,06613,1462
	17,30601,6644
2510	3,39967,37214,8104
	17,29912,3188
2511	3,39984,67127,1292
	17,29223,5224
2512	3,40001,96350,6516
	17,28535,2742
2513	3,40019,24885,9258
	17,27847,5736
2514	3,40036,52733,4994
	17,27160,4200
2515	3,40053,79893,9194
	17,26473,8128
2516	3,40071,06367,7322
	17,25787,7513
2517	3,40088,32155,4835
	17,25102,2348
2518	3,40105,57257,7183
	17,24417,2627
2519	3,40122,81674,9810
	17,23732,8344
2520	3,40140,05407,8154
	17,23048,9490
2521	3,40157,28456,7644
	17,22365,6061
2522	3,40174,50822,3705
	17,21682,8051
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2524	3,40208,93505,7208
	17,20318,8259
2525	3,40226,13824,5467
	17,19637,6463
2526	3,40243,33462,1930
	17,18957,0060
2527	3,40260,52419,1990
	17,18276,9043
2528	3,40277,70696,1033
	17,17597,3406
2529	3,40294,88293,4439
	17,16918,3143
2530	3,40312,05211,7582
	17,16239,8243
2531	3,40329,21451,5825
	17,15561,8706
2532	3,40346,37013,4531
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2533	3,40363,51897,9054
	17,24207,5688
2534	3,40380,76105,4742
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2535	3,40397,79636,6935
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2536	3,40414,92492,0969
	17,12180,1204
2537	3,40432,04672,2173
	17,11505,3695
2538	3,40449,16177,5868
	17,10831,1503
2539	3,40466,27008,7371
	17,10157,4623
2540	3,40483,37166,1994
	17,09484,3044
2541	3,40500,46650,5038
	17,08811,6762
2542	3,40517,55462,1800
	17,08139,5772
2543	3,40534,63601,7572
	17,07468,0067
2544	3,40551,71069,7639
	17,06796,9640
2545	3,40568,77866,7279
	17,06126,4486
2546	3,40585,83993,1765
	16,95456,4598
2547	3,40602,79449,6363
	17,14786,9970
2548	3,40619,94236,6333
	17,04118,0595
2549	3,40636,98354,6928
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	16,23227,3854
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	16,22620,9114
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2704	3,43200,66872,6960 16,05821,7299
2705	3,43216,72694,4259 16,05228,1901
2706	3,43232,77922,6160 16,04635,0891
2707	3,43248,82557,7051 16,04042,4260
2708	3,43264,86600,1311 16,03450,2005
2709	3,43280,90050,3316 16,02858,4124
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2711	3,43312,95175,8048 16,01676,1454
2712	3,43328,96851,9502 16,01085,6657
2713	3,43344,97937,6159 16,00495,6212
2714	3,43360,98433,2371 15,99906,0115
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2718	3,43424,94523,9647 15,97551,9103
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2725	3,43536,65066,1266 15,93448,8600
2726	3,43552,58514,9866 15,92864,4298
2727	3,43568,51379,4164 15,92280,4281
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2729	3,43600,35356,6990 15,91113,7086
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2731	3,43632,17001,3974 15,89948,6976
2732	3,43648,06950,0950 15,89366,8316
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2737	3,43727,47974,1013 15,86463,8785
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2741	3,43790,90355,3950 15,84149,1400
2742	3,43806,74504,5350 15,83571,5104
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2747	3,43885,86594,2055 15,80689,6696
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2753	3,43980,62113,9333 15,77245,2757
2754	3,43996,39359,2090 15,76672,6690
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2759	3,44075,17004,7918 15,73815,8604
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2771	3,44263,65257,8223 15,67001,5754
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2774	3,44310,64567,3727 15,65307,2143
2775	3,44326,29874,5870 15,64743,2412
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2791	3,44575,98364,8864 15,55774,6249
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2793	3,44607,09357,0101 15,54660,7716
2794	3,44622,64017,7817 15,54104,4428
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2808	3,44839,71034,5777
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2812	3,44901,53163,4779
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2813	3,44916,97321,6520
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2814	3,44932,40930,9872
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2815	3,44947,83991,8736
	15,42512,8271
2816	3,44963,26504,7007
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	15,15607,5792
2866	3,45727,61860,6132
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	14,94732,3565
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2911	3,46404,22054,3881
	14,91652,0219
2912	3,46419,13706,4100
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	14,90116,6106
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	14,89605,5090
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	14,89094,7579
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	14,77946,1838
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	14,76940,9491
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2977	3,47377,88346,4672
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3016	3,47943, 13374, 9774
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3091	3,49009, 90050, 6330
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	14, 04347, 5689
3093	3,49037, 99200, 0318
	14, 03893, 6017
3094	3,49052, 03093, 6338
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3095	3,49066, 06533, 5614
	14, 02986, 5472
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	14, 02533, 4593
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3114	3,49331,86082,3210
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3116	3,49359,74490,0053
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	13,60784,8518
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	13,59506,9196
3195	3,50447,08624,9442
	13,59081,4753
3196	3,50460, 67706,4195
	13,58656,2973
3197	3,50474,26362,7168
	13,58231,3853
3198	3,50487,84594,1021
	13,57806,7389
3199	3,50501,42400,8410
	13,57382,3580
3200	3,505 14, 99783,1990
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3201	3,50528,56741,4413
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3202	3,50542,13275,8327
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3203	3,50555,69386,6381
	13,55687,4839
3204	3,50569,25074,1220
	13,55264,4265
3205	3,50582,80338,5485
	13,54841,6329
3206	3,50596,35180,1814
	13,54419,1031
3207	3,50609,89599,2845
	13,53996,8368
3208	3,50623,43596,1213
	13,53574,8337
3209	3,50636,97170,9550
	13,53153,0937
3210	3,50650,50324,0487
	13,52731,6163
3211	3,50664,03055,6650
	13,52310,4014
3212	3,50677,55366,0664
	13,51889,4487
3213	3,50691,07255,5151
	13,51468,7581
3214	3,50704,58724,1732
	13,51048,3292
3215	3,50718,09772,6024
	13,50628,1618
3216	3,50731,60400,7642
	13,50208,2555
3217	3,50745,10609,0197
	13,49788,6104
3218	3,50758,60397,6301
	13,49369,2261
3219	3,50772,09766,8562
	13,48950,1021
3220	3,50785,58716,9583
	13,48531,2385
3221	3,50799,07248,1968
	13,48112,6351
3222	3,50812,55360,8319
	13,47694,2914
3223	3,50826,03055,1233
	13,47276,2072
3224	3,50839,50331,3305
	13,46858,3824
3225	3,50852,97189,7129
	13,46440,8166
3226	3,50866,43630,5295
	13,46023,5096
3227	3,50879,89654,0391
	13,45606,4612
3228	3,50893,35260,5003
	13,45189,6712
3229	3,50906,80450,1715
	13,44773,1395
3230	3,50920,25223,3110
	13,44356,8655
3231	3,50933,69580,1765
	13,43940,8490
3232	3,50947,13521,0255
	13,43525,0900
3233	3,50960,57046,1155
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3234	3,50974,00155,7038
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Num. absolu.	Logarithmi.
3234	3,50974,00155,7038
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	13,42279,3552
3236	3,51000,85129,4024
	13,41864,6233
3237	3,51014,26994,0257
	13,41450,1478
3238	3,51027,68444,1735
	13,41035,9283
3239	3,51041,09480,1018
	13,40621,9644
3240	3,51054,50102,0661
	13,40208,2559
3241	3,51067,90310,3220
	13,39794,8028
3242	3,51081,30105,1248
	13,39381,6048
3243	3,51094,69486,7296
	13,38968,6615
3244	3,51108,08455,3911
	13,38555,9727
3245	3,51121,47011,3638
	13,38143,5382
3246	3,51134,85154,9020
	13,37731,3578
3247	3,51148,22886,2598
	13,37319,4314
3248	3,51161,60205,6912
	13,36907,7585
3249	3,51174,97113,4497
	13,36496,3389
3250	3,51188,33609,7887
	13,36085,1724
3251	3,51201,69694,9611
	13,35674,2590
3252	3,51215,05369,2201
	13,35263,5983
3253	3,51228,40632,8184
	13,34853,1900
3254	3,51241,75486,0084
	13,34443,0337
3255	3,51255,09929,0421
	13,34033,1294
3256	3,51268,43962,1715
	13,33623,4771
3257	3,51281,77585,6486
	13,33214,0762
3258	3,51295,10799,7248
	13,32804,9266
3259	3,51308,43604,6514
	13,32396,0280
3260	3,51321,76000,6794
	13,31987,3802
3261	3,51335,07988,0596
	13,31578,9831
3262	3,51348,39567,0427
	13,31170,8362
3263	3,51361,70737,8789
	13,30762,9394
3264	3,51375,01500,8183
	13,30355,2927
3265	3,51388,31856,1110
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3266	3,51401,61804,0065
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3267	3,51414,91344,7543
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Num. absolu.	Logarithmi.
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3269	3,51441,49205,8037
	13,28320,7992
3270	3,51454,77526,6029
	13,27914,6469
3271	3,51468,05441,2498
	13,27508,7430
3272	3,51481,32949,9928
	13,27103,0872
3273	3,51494,60053,0800
	13,26697,6792
3274	3,51507,86750,7592
	13,26292,5188
3275	3,51521,13043,2780
	13,25887,6058
3276	3,51534,38930,8838
	13,25482,9400
3277	3,51547,64413,8238
	13,25078,5211
3278	3,51560,89492,3449
	13,24674,3488
3279	3,51574,14166,6937
	13,24270,4231
3280	3,51587,38437,1168
	13,23866,7436
3281	3,51600,62303,8604
	13,23463,3103
3282	3,51613,85767,1707
	13,23060,1227
3283	3,51627,08827,2934
	13,22657,1807
3284	3,51640,31484,4741
	13,22254,4839
3285	3,51653,53738,9580
	13,21852,0324
3286	3,51666,75590,9904
	13,21449,8259
3287	3,51679,97040,8163
	13,21047,8639
3288	3,51693,18088,6802
	13,20646,1464
3289	3,51706,38734,8266
	13,20244,6731
3290	3,51719,58979,4997
	13,19843,4440
3291	3,51732,78822,9437
	13,19442,4586
3292	3,51745,98265,4023
	13,19041,7168
3293	3,51759,17307,1191
	13,18641,2183
3294	3,51772,35948,3374
	13,18240,9629
3295	3,51785,54189,3003
	13,17840,9505
3296	3,51798,72030,2508
	13,17441,1808
3297	3,51811,89471,4316
	13,17041,6535
3298	3,51825,06513,0851
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3299	3,51838,23155,4535
	13,16243,3254
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	13,14649,5693
3304	3,51904,00386,4835
	13,14251,7331
3305	3,51917,14638,2166
	13,13854,1376
3306	3,51930,28492,3542
	13,13456,7828
3307	3,51943,41949,1370
	13,13059,6681
3308	3,51956,55008,8051
	13,12662,7934
3309	3,51969,67671,5985
	13,12266,1587
3310	3,51982,79937,7572
	13,11869,7635
3311	3,51995,91807,5207
	13,11473,6077
3312	3,52009,03281,1284
	13,11077,6912
3313	3,52022,14358,8196
	13,10682,0136
3314	3,52035,25040,8332
	13,10286,5747
3315	3,52048,35327,4079
	13,09891,3744
3316	3,52061,45218,7823
	13,09496,4125
3317	3,52074,54715,1948
	13,09101,6886
3318	3,52087,63816,8834
	13,08707,2026
3319	3,52100,72524,0860
	13,08312,9543
3320	3,52113,80837,0403
	13,07918,9436
3321	3,52126,88755,9839
	13,07525,1699
3322	3,52139,96281,1538
	13,07131,6333
3323	3,52153,03412,7871
	13,06738,3336
3324	3,52166,10151,1207
	13,06345,2705
3325	3,52179,16496,3912
	13,05952,4438
3326	3,52192,22448,8350
	13,05559,8532
3327	3,52205,28008,6882
	13,05167,4986
3328	3,52218,33176,1868
	13,04775,3798
3329	3,52231,37951,5666
	13,04383,4965
3330	3,52244,42335,0632
	13,03991,8486
3331	3,52257,46326,9118
	13,03600,4358
3332	3,52270,49927,3476
	13,03209,2578
3333	3,52283,53136,6054
	13,02818,3145
3334	3,52296,55954,9199
	13,02427,6059
3335	3,52309,58382,5258
	13,02037,1314
3336	3,52322,60419,6572
	13,01646,8909
3337	3,52335,62066,5481
	13,01256,8843
3338	3,52348,63323,4324
	13,00867,1115
3339	3,52361,64190,5439
	13,00477,5719
3340	3,52374,64668,1157
	13,00088,2656
3341	3,52387,64756,3813
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3342	3,52400,64455,5737
	12,99310,3519
3343	3,52413,63765,9256
	12,98921,7441
3344	3,52426,62687,6697
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	12,97757,3140
3347	3,52465,57123,5777
	12,97369,6345
3348	3,52478,54493,2122
	12,96982,1865
3349	3,52491,51475,3987
	12,96594,9697
3350	3,52504,48070,3684
	12,96207,9843
3351	3,52517,44278,3527
	12,95821,2297
3352	3,52530,40099,5824
	12,95434,7058
3353	3,52543,35534,2882
	12,95048,4125
3354	3,52556,30582,7007
	12,94662,3495
3355	3,52569,25245,0502
	12,94276,5165
3356	3,52582,19521,5667
	12,93890,9135
3357	3,52595,13412,4802
	12,93505,5402
3358	3,52608,06918,0204
	12,93120,3963
3359	3,52621,00038,4167
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3360	3,52633,92773,8984
	12,92350,7964
3361	3,52646,85124,6948
	12,91966,3398
3362	3,52659,77091,0346
	12,91582,1118
3363	3,52672,68673,1464
	12,91198,1123
3364	3,52685,59871,2587
	12,90814,3412
3365	3,52698,50685,5999
	12,90430,7981
3366	3,52711,41116,3980
	12,90047,4829
3367	3,52724,31163,8809
	12,89664,3952
3368	3,52737,20828,2761
	12,89281,5350
3369	3,52750,10109,8111
	12,88898,9022
3370	3,52762,99008,7134
	12,88516,4963
3371	3,52775,87525,2097
	12,88134,3173
3372	3,52788,75659,5270
	12,87752,3650
3373	3,52801,63411,8920
	12,87370,6391
3374	3,52814,50782,5311
	12,86989,1394
3375	3,52827,37771,6705
	12,86607,8657
3376	3,52840,24379,5362
	12,86226,8180
3377	3,52853,10606,3542
	12,85845,9958
3378	3,52865,96452,3500
	12,85465,3990
3379	3,52878,81917,7490
	12,85085,0276
3380	3,52891,67002,7765
	12,84704,8812
3381	3,52904,51707,6577
	12,84324,9595
3382	3,52917,36032,6172
	12,83945,2626
3383	3,52930,19977,8798
	12,83565,7901
3384	3,52943,03543,6699
	12,83186,5418
3385	3,52955,86730,2117
	12,82807,5174
3386	3,52968,69537,7291
	12,82428,7171
3387	3,52981,51966,4462
	12,82050,1404
3388	3,52994,34016,5866
	12,81671,7871
3389	3,53007,15688,3737
	12,81293,6571
3390	3,53019,96982,0308
	12,80915,7500
3391	3,53032,77897,7808
	12,80538,0659
3392	3,53045,58435,8467
	12,80160,6044
3393	3,53058,38596,4511
	12,79783,3654
3394	3,53071,18379,8165
	12,79406,3487
3395	3,53083,97786,1652
	12,79029,5540
3396	3,53096,76815,7192
	12,78652,9811
3397	3,53109,55468,7003
	12,78276,6300
3398	3,53122,33745,3303
	12,77900,5003
3399	3,53135,11645,8306
	12,77524,5919
3400	3,53147,89170,4226
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3403	3,53186,19490,9582
	12,76023,1674
3404	3,53198,95514,1256
	12,75648,3626
3405	3,53211,71162,4882
	12,75273,7778
3406	3,53224,46436,2660
	12,74899,4129
3407	3,53237,21335,6789
	12,74525,2678
3408	3,53249,95860,9467
	12,74151,3423
3409	3,53262,70012,2890
	12,73777,6361
3410	3,53275,43789,9250
	12,73404,1490
3411	3,53288,17194,0740
	12,73030,8808
3412	3,53300,90224,9548
	12,72657,8315
3413	3,53313,62882,7863
	12,72285,0008
3414	3,53326,35167,7871
	12,71912,3884
3415	3,53339,07080,1755
	12,71539,9942
3416	3,53351,78620,1697
	12,71167,8179
3417	3,53364,49787,9876
	12,70795,8595
3418	3,53377,20583,8471
	12,70424,1188
3419	3,53389,91007,9659
	12,70052,5954
3420	3,53402,61060,5613
	12,69681,2893
3421	3,53415,30741,8506
	12,69310,2002
3422	3,53428,00052,0508
	12,68939,3280
3423	3,53440,68991,3788
	12,68568,6723
3424	3,53453,37560,0511
	12,68198,2333
3425	3,53466,05758,2844
	12,67828,0105
3426	3,53478,73586,2949
	12,67458,0038
3427	3,53491,41044,2987
	12,67088,2129
3428	3,53504,08132,5116
	12,66718,6378
3429	3,53516,74851,1494
	12,66349,2783
3430	3,53529,41200,4277
	12,65980,1341
3431	3,53542,07180,5618
	12,65611,2049
3432	3,53554,72791,7667
	12,65242,4907
3433	3,53567,38034,2574
	12,64873,9015
3434	3,53580,02908,2489
	12,64505,7068
3435	3,53592,67413,9557
	12,64137,6364
3436	3,53605,31551,5921
	12,63769,7802
3437	3,53617,95321,3723
	12,63402,1380
3438	3,53630,58723,5103
	12,63034,7098
3439	3,53643,21758,2201
	12,62667,4952
3440	3,53655,84425,7153
	12,62300,4940
3441	3,53668,46726,2093
	12,61933,7061
3442	3,53681,08659,9154
	12,61567,1313
3443	3,53693,70227,0467
	12,61200,7695
3444	3,53706,31427,8162
	12,60834,6203
3445	3,53718,92262,4365
	12,60468,6836
3446	3,53731,52731,1201
	12,60102,9594
3447	3,53744,12834,0795
	12,59737,4472
3448	3,53756,72571,5267
	12,59372,1471
3449	3,53769,31943,6738
	12,59007,0589
3450	3,53781,90950,7327
	12,58642,1822
3451	3,53794,49592,9149
	12,58277,5168
3452	3,53807,07870,4317
	12,57913,0627
3453	3,53819,65783,4944
	12,57548,8199
3454	3,53832,23332,3143
	12,57184,7879
3455	3,53844,80517,1022
	12,56820,9664
3456	3,53857,37338,0686
	12,56457,3555
3457	3,53869,93795,4241
	12,56093,9549
3458	3,53882,49889,3790
	12,55730,7646
3459	3,53895,05620,1436
	12,55367,7842
3460	3,53907,60987,9278
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3461	3,53920,15992,9413
	12,54642,4524
3462	3,53932,70635,3937
	12,54280,1009
3463	3,53945,24915,4946
	12,53917,9585
3464	3,53957,78833,4531
	12,53556,0252
3465	3,53970,32389,4783
	12,53194,3007
3466	3,53982,85583,7790
	12,52832,7850
3467	3,53995,38416,5640
	12,52471,4778
3468	3,54007,90888,0418
	12,52110,3789
3469	3,54020,42998,4207
	12,51749,4881
3470	3,54032,94747,9088
	12,51388,8054
3471	3,54045,46136,7142
	12,51028,3304
3472	3,54057,97165,0446
	12,50668,0630
3473	3,54070,47833,1076
	12,50308,0031
3474	3,54082,98141,1107
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3475	3,54095,48089,2613
	12,49588,5050
3476	3,54107,97677,7663
	12,49229,0663
3477	3,54120,46906,8326
	12,48869,8344
3478	3,54132,95776,6670
	12,48510,8089
3479	3,54145,44287,4759
	12,48151,9899
3480	3,54157,92439,4658
	12,47793,3770
3481	3,54170,40232,8428
	12,47434,9702
3482	3,54182,87667,8130
	12,47076,7693
3483	3,54195,34744,5823
	12,46718,7739
3484	3,54207,81463,3562
	12,46360,9840
3485	3,54220,27824,3402
	12,46003,3995
3486	3,54232,73827,7397
	12,45646,0201
3487	3,54245,19473,7598
	12,45288,8455
3488	3,54257,64762,6053
	12,44931,8758
3489	3,54270,09694,4811
	12,44575,1108
3490	3,54282,54269,5919
	12,44218,5500
3491	3,54294,98488,1419
	12,43862,1935
3492	3,54307,42350,3354
	12,43506,0411
3493	3,54319,85856,3765
	12,43150,0927
3494	3,54332,29006,4692
	12,42794,3479
3495	3,54344,71800,8171
	12,42438,8067
3496	3,54357,14239,6238
	12,42083,4688
3497	3,54369,56323,0926
	12,41728,3341
3498	3,54381,98051,4267
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3499	3,54394,39424,8292
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3500	3,54406,80443,5028
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	12,39601,7835
3504	3,54456,40974,9604
	12,39248,0663
3505	3,54468,80223,0267
	12,38894,5510
3506	3,54481,19117,5777
	12,38541,2373
3507	3,54493,57658,8150
	12,38188,1250
3508	3,54505,95846,9400
	12,37835,2140
3509	3,54518,33682,1540
	12,37482,5041
3510	3,54530,71164,6582
	12,37129,9952
3511	3,54543,08294,6534
	12,36777,6872
3512	3,54555,45072,3406
	12,36425,5797
3513	3,54567,81497,9203
	12,36073,6726
3514	3,54580,17571,5929
	12,35721,9656
3515	3,54592,53293,5585
	12,35370,4589
3516	3,54604,88664,0174
	12,35019,1521
3517	3,54617,23683,1695
	12,34668,0450
3518	3,54629,58351,2145
	12,34317,1375
3519	3,54641,92668,3520
	12,33966,4294
3520	3,54654,26634,7813
	12,33615,9206
3521	3,54666,60250,7019
	12,33265,6107
3522	3,54678,93516,3126
	12,32915,4998
3523	3,54691,26431,8124
	12,32565,5877
3524	3,54703,58997,4001
	12,32215,8741
3525	3,54715,91213,2742
	12,31866,3589
3526	3,54728,23079,6331
	12,31517,0418
3527	3,54740,54596,6749
	12,31167,9229
3528	3,54752,85764,5978
	12,30819,0019
3529	3,54765,16583,5997
	12,30470,2786
3530	3,54777,47053,8783
	12,30121,7527
3531	3,54789,77175,6310
	12,29773,4243
3532	3,54802,06949,0553
	12,29425,2931
3533	3,54814,36374,3484
	12,29077,3590
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	12,28729,6217

Num. absolu.	Logarithmi.
3534	3,54826,65451,7074
	12,28729,6217
3535	3,54838,94181,3291
	12,28382,0812
3536	3,54851,22563,4103
	12,28034,7372
3537	3,54863,50598,1475
	12,27687,5896
3538	3,54875,78285,7371
	12,27340,6381
3539	3,54888,05626,3752
	12,26993,8827
3540	3,54900,32620,2579
	12,26647,3232
3541	3,54912,59267,5811
	12,26300,9594
3542	3,54924,85568,5405
	12,25954,7912
3543	3,54937,11523,3317
	12,25608,8184
3544	3,54949,37132,1501
	12,25263,0408
3545	3,54961,62395,1909
	12,24917,4581
3546	3,54973,87312,6490
	12,24572,0704
3547	3,54986,11884,7194
	12,24226,8775
3548	3,54998,36111,5969
	12,23881,8791
3549	3,55010,59993,4760
	12,23537,0750
3550	3,55022,83530,5509
	12,23192,4652
3551	3,55035,06723,0161
	12,22848,0495
3552	3,55047,29571,0656
	12,22503,8276
3553	3,55059,52074,8932
	12,22159,7995
3554	3,55071,74234,6927
	12,21815,9650
3555	3,55083,96050,6577
	12,21472,3239
3556	3,55096,17522,9816
	12,21128,8760
3557	3,55108,38651,8576
	12,20785,6213
3558	3,55120,59437,4789
	12,20442,5594
3559	3,55132,79880,0384
	12,20099,6903
3560	3,55144,99979,7288
	12,19757,0138
3561	3,55157,19736,7426
	12,19414,5298
3562	3,55169,39151,2724
	12,19072,2379
3563	3,55181,58223,5103
	12,18730,1382
3564	3,55193,76953,6485
	12,18388,2305
3565	3,55205,95341,8790
	12,18046,5145
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Num. absolu	Logarithmi.
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3570	3,55266,82161,1219
	12,16340,8058
3571	3,55278,98501,9277
	12,16000,2373
3572	3,55291,14502,1650
	12,15659,8593
3573	3,55303,30162,0243
	12,15319,6719
3574	3,55315,45481,6962
	12,14979,6748
3575	3,55327,60461,3710
	12,14639,8678
3576	3,55339,75101,2388
	12,14300,2509
3577	3,55351,89401,4897
	12,13960,8238
3578	3,55364,03362,3135
	12,13621,5865
3579	3,55376,16983,9000
	12,13282,5387
3580	3,55388,30266,4387
	12,12943,6802
3581	3,55400,43210,1189
	12,12605,0111
3582	3,55412,55815,1300
	12,12266,5310
3583	3,55424,68081,6610
	12,11928,2399
3584	3,55436,80009,9009
	12,11590,1375
3585	3,55448,91600,0384
	12,11252,2234
3586	3,55461,02852,2618
	12,10914,4979
3587	3,55473,13766,7597
	12,10576,9609
3588	3,55485,24343,7206
	12,10239,6119
3589	3,55497,34583,3325
	12,09902,4509
3590	3,55509,44485,7833
	12,09565,4775
3591	3,55521,54051,2608
	12,09228,6918
3592	3,55533,63279,9526
	12,08892,0938
3593	3,55545,72172,0464
	12,08555,6831
3594	3,55557,80727,7295
	12,08219,4595
3595	3,55569,88947,1890
	12,07883,4229
3596	3,55581,96830,6119
	12,07547,5732
3597	3,55594,04378,1851
	12,07211,9103
3598	3,55606,11590,0954
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	12,04867,4843
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	12,04533,3093
3606	3,55702,57223,8638
	12,04199,3197
3607	3,55714,61423,1835
	12,03865,5155
3608	3,55726,65288,6990
	12,03531,8961
3609	3,55738,68820,5951
	12,03198,4615
3610	3,55750,72019,0566
	12,02865,2116
3611	3,55762,74884,2682
	12,02532,1464
3612	3,55774,77416,4146
	12,02199,2656
3613	3,55786,79615,6802
	12,01866,5689
3614	3,55798,81482,2491
	12,01534,0564
3615	3,55810,83016,3055
	12,01201,7277
3616	3,55822,84218,0332
	12,00869,5829
3617	3,55834,85087,6161
	12,00537,6218
3618	3,55846,85625,2379
	12,00205,8441
3619	3,55858,85831,0820
	11,99874,2496
3620	3,55870,85705,3316
	11,99542,8384
3621	3,55882,85248,1700
	11,99211,6103
3622	3,55894,84459,7803
	11,98880,5650
3623	3,55906,83340,3453
	11,98549,7024
3624	3,55918,81890,0477
	11,98219,0224
3625	3,55930,80109,0701
	11,97888,5248
3626	3,55942,77997,5949
	11,97558,2095
3627	3,55954,75555,8044
	11,97228,0762
3628	3,55966,72783,8806
	11,96898,1250
3629	3,55978,69682,0056
	11,96568,3555
3630	3,55990,66250,3611
	11,96238,7678
3631	3,56002,62489,1289
	11,95909,3616
3632	3,56014,58398,4905
	11,95580,1367
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	11,94922,2304
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	11,94593,5487
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	11,94265,0477
3637	3,56074,33010,5470
	11,93936,7276
3638	3,56086,26947,2746
	11,93608,5878
3639	3,56098,20555,8624
	11,93280,6281
3640	3,56110,13836,4906
	11,92952,8489
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	11,92625,2495
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	11,92297,8301
3643	3,56145,91712,4191
	11,91970,5905
3644	3,56157,83683,0096
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	11,91316,6496
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	11,90989,9482
3647	3,56193,57633,1377
	11,90663,4260
3648	3,56205,48296,5637
	11,90337,0828
3649	3,56217,38633,6465
	11,90010,9183
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3651	3,56241,18329,4973
	11,89359,1253
3652	3,56253,07688,6226
	11,89033,4965
3653	3,56264,96722,1191
	11,88708,0460
3654	3,56276,85430,1651
	11,88382,7737
3655	3,56288,73812,9388
	11,88057,6792
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	11,87732,7624
3657	3,56312,49603,3804
	11,87408,0235
3658	3,56324,37011,4039
	11,87083,4621
3659	3,56336,24094,8660
	11,86759,0781
3660	3,56348,10853,9441
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3661	3,56359,97288,8153
	11,86110,8415
3662	3,56371,83399,6568
	11,85786,9886
3663	3,56383,69186,6454
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3664	3,56395,54649,9581
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3665	3,56407,39789,7715
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3666	3,56419,24606,2620
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3668	3,56442,93269,9798
	11,83847,5797
3669	3,56454,77117,5595
	11,83524,9614
3670	3,56466,60642,5210
	11,83202,5190
3671	3,56478,43845,0400
	11,82880,2522
3672	3,56490,26725,2922
	11,82558,1609
3673	3,56502,09283,4531
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3674	3,56513,91519,6981
	11,81914,5042
3675	3,56525,73434,2023
	11,81592,9386
3676	3,56537,55027,1409
	11,81271,5478
3677	3,56549,36298,6887
	11,80950,3319
3678	3,56561,17249,0206
	11,80629,2907
3679	3,56572,97878,3113
	11,80308,4239
3680	3,56584,78186,7352
	11,79987,7315
3681	3,56596,58174,4667
	11,79667,2133
3682	3,56608,37841,6800
	11,79346,8692
3683	3,56620,17188,5492
	11,79026,6990
3684	3,56631,96215,2482
	11,78706,7026
3685	3,56643,74921,9508
	11,78386,8798
3686	3,56655,53308,8306
	11,78067,2306
3687	3,56667,31376,0612
	11,77747,7548
3688	3,56679,09123,8160
	11,77428,4522
3689	3,56690,86552,2682
	11,77109,3225
3690	3,56702,63661,5906
	11,76790,3659
3691	3,56714,40451,9565
	11,76471,5822
3692	3,56726,16923,5387
	11,76152,9711
3693	3,56737,93076,5098
	11,75834,5324
3694	3,56749,68911,0422
	11,75516,2662
3695	3,56761,44427,3084
	11,75198,1723
3696	3,56773,19625,4807
	11,74880,2504
3697	3,56784,94505,7311
	11,74562,5005
3698	3,56796,69068,2316
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3699	3,56808,43313,1540
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3703	3,56855,37120,4944
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	11,72343,0545
3705	3,56878,82123,1535
	11,72026,6753
3706	3,56890,54149,8288
	11,71710,4669
3707	3,56902,25860,2957
	11,71394,4289
3708	3,56913,97254,7246
	11,71078,5615
3709	3,56925,68333,2861
	11,70762,8644
3710	3,56937,39096,1505
	11,70447,3374
3711	3,56949,09543,4879
	11,70131,9804
3712	3,56960,79675,4683
	11,69816,7933
3713	3,56972,49492,2616
	11,69501,7760
3714	3,56984,18994,0376
	11,69186,9283
3715	3,56995,88180,9659
	11,68872,2501
3716	3,57007,57053,2160
	11,68557,7413
3717	3,57019,25610,9573
	11,68243,4015
3718	3,57030,93854,3588
	11,67929,2309
3719	3,57042,61783,5897
	11,67615,2293
3720	3,57054,29398,8190
	11,67301,3964
3721	3,57065,96700,2154
	11,66987,7321
3722	3,57077,63687,9475
	11,66674,2364
3723	3,57089,30362,1839
	11,66360,9091
3724	3,57100,96723,0930
	11,66047,7501
3725	3,57112,62770,8431
	11,65734,7591
3726	3,57124,28505,6022
	11,65421,9361
3727	3,57135,93927,5383
	11,65109,2811
3728	3,57147,59036,8194
	11,64796,7937
3729	3,57159,23833,6131
	11,64484,4738
3730	3,57170,88318,0869
	11,64172,3214
3731	3,57182,52490,4083
	11,63860,3363
3732	3,57194,16350,7446
	11,63548,5184
3733	3,57205,79899,2630
	11,63236,8676
3734	3,57217,43136,1306
	11,62925,3836

Num. absolu.	Logarithmi.
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	11,62925,3836
3735	3,57229,06061,5142
	11,62614,0664
3736	3,57240,68675,5806
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3737	3,57252,30978,4964
	11,61991,9317
3738	3,57263,92970,4281
	11,61681,1141
3739	3,57275,54651,5422
	11,61370,4626
3740	3,57287,16022,0048
	11,61059,9772
3741	3,57298,77081,9820
	11,60749,6579
3742	3,57310,37831,6399
	11,60439,5043
3743	3,57321,98271,1442
	11,60129,5165
3744	3,57333,58400,6607
	11,59819,6942
3745	3,57345,18220,3549
	11,59510,0373
3746	3,57356,77730,3922
	11,59200,5458
3747	3,57368,36930,9380
	11,58891,2194
3748	3,57379,95822,1574
	11,58582,0581
3749	3,57391,54404,2155
	11,58273,0617
3750	3,57403,12677,2772
	11,57964,2301
3751	3,57414,70641,5073
	11,57655,5630
3752	3,57426,28297,0703
	11,57347,0605
3753	3,57437,85644,1308
	11,57038,7224
3754	3,57449,42682,8532
	11,56730,5487
3755	3,57460,99413,4019
	11,56422,5389
3756	3,57472,55835,9408
	11,56114,6931
3757	3,57484,11950,6339
	11,55807,0111
3758	3,57495,67757,6450
	11,55499,4930
3759	3,57507,23257,1380
	11,55192,1385
3760	3,57518,78449,2766
	11,54884,9474
3761	3,57530,33334,2240
	11,54577,9197
3762	3,57541,87912,1437
	11,54271,0551
3763	3,57553,42183,1988
	11,53964,3535
3764	3,57564,96147,5523
	11,53657,8150
3765	3,57576,49805,3673
	11,53351,4392
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	11,53045,2262
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	11,52739,1757
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	11,52127,5619
3770	3,57634,13502,0579
	11,51821,9983
3771	3,57645,65324,0562
	11,51516,5967
3772	3,57657,16840,6529
	11,51211,3570
3773	3,57668,68052,0099
	11,50906,2792
3774	3,57680,18958,2891
	11,50601,3629
3775	3,57691,69559,6520
	11,50296,6082
3776	3,57703,19856,2602
	11,49992,0150
3777	3,57714,69848,2752
	11,49687,5829
3778	3,57726,19535,8581
	11,49383,3120
3779	3,57737,68919,1701
	11,49079,2022
3780	3,57749,17998,3723
	11,48775,2531
3781	3,57760,66773,6254
	11,48471,4649
3782	3,57772,15245,0903
	11,48167,8372
3783	3,57783,63412,9275
	11,47864,3701
3784	3,57795,11277,2976
	11,47561,0634
3785	3,57806,58838,3610
	11,47257,9169
3786	3,57818,06096,2779
	11,46954,9305
3787	3,57829,53051,2084
	11,46652,1041
3788	3,57840,99703,3125
	11,46349,4375
3789	3,57852,46052,7500
	11,46046,9308
3790	3,57863,92099,6807
	11,45744,5836
3791	3,57875,37844,2643
	11,45442,3960
3792	3,57886,83286,6603
	11,45140,3676
3793	3,57898,28427,0279
	11,44838,4986
3794	3,57909,73265,5265
	11,44536,7885
3795	3,57921,17802,3150
	11,44235,2375
3796	3,57932,62037,5525
	11,43933,8454
3797	3,57944,05971,3979
	11,43632,6120
3798	3,57955,49604,0099
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3799	3,57966,92935,5472
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3800	3,57978,35966,1681
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3804	3,58024, 05082,6537
	11, 41528, 4122
3805	3,58035, 46611,0659
	11, 41228, 4442
3806	3,58046, 87839,5101
	11, 40928, 6336
3807	3,58058, 28768, 1437
	11, 40628, 9806
3808	3,58069, 69397, 1243
	11, 40329, 4851
3809	3,58081, 09726, 6094
	11, 40030, 1468
3810	3,58092, 49756, 7562
	11, 39730, 9655
3811	3,58103, 89487, 7217
	11, 39431, 9412
3812	3,58115, 28919, 6629
	11, 39133, 0738
3813	3,58126, 68052, 7367
	11, 38834, 3632
3814	3,58138, 06887, 0999
	11, 38535, 8091
3815	3,58149, 45422, 9090
	11, 38237, 4116
3816	3,58160, 83660, 3206
	11, 37939, 1704
3817	3,58172, 21599, 4910
	11, 37641, 0855
3818	3,58183, 59240, 5765
	11, 37343, 1567
3819	3,58194, 96583, 7332
	11, 37045, 3839
3820	3,58206, 33629, 1171
	11, 36747, 7670
3821	3,58217, 70376, 8841
	11, 36450, 3058
3822	3,58229, 06827, 1899
	11, 36153, 0004
3823	3,58240, 42980, 1903
	11, 35855, 8505
3824	3,58251, 78836, 0408
	11, 35558, 8557
3825	3,58263, 14394, 8965
	11, 35262, 0163
3826	3,58274, 49656, 9128
	11, 34965, 3321
3827	3,58285, 84622, 2449
	11, 34668, 8031
3828	3,58297, 19291, 0480
	11, 34372, 4289
3829	3,58308, 53663, 4769
	11, 34076, 2093
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4012	3,60336,09243,4839
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4471	3,65040, 46698,6803 9, 71250, 1034
4472	3,65050, 17948,7837 9, 71032,9429
4473	3,65059, 88981,7266 9, 70815,8796
4474	3,65069, 59797,6062 9, 70598,9132
4475	3,65079, 30396,5194 9, 70382,0438
4476	3,65089, 00778,5632 9, 70165, 2713
4477	3,65098, 70943,8345 9, 69948,5957
4478	3,65108, 40892,4302 9, 69732,0168
4479	3,65118, 10624,4470 9, 69515,5345
4480	3,65127, 80139,9814 9, 69299, 1490
4481	3,65137, 49439,1304 9, 69082,8600
4482	3,65147, 18521,9904 9, 68866,6675
4483	3,65156, 87388,6579 9, 68650,5714
4484	3,65166, 56039,2293 9, 68434,5717
4485	3,65176, 24473,8010 9, 68218,6684
4486	3,65185, 92692,4694 9, 68002,8613
4487	3,65195, 60695,3307 9, 67787,1503
4488	3,65205, 28482,4810 9, 67571,5355
4489	3,65214, 96054,0165 9, 67356, 0167
4490	3,65224, 63410,0332 9, 67140,5939
4491	3,65234, 30550, 6271 9, 66925, 2670
4492	3,65243, 97475, 8941 9, 66710,0360
4495	3,65253, 64185, 9301 9, 66494,900 9
4494	3,65263, 30680,8310 9, 66279,8614
4495	3,65272, 96960,6924 9, 66064,9176
4496	3,65282, 63025,6100 9, 65850,0694
4497	3,65292, 28875, 6794 9, 65635,3168
4498	3,65301, 94510,9962 9, 65420, 6595
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4503	3,65350,19469,6293
	9,64348,8036
4504	3,65359,83818,4329
	9,64134,7179
4505	3,65369,47953,1508
	9,63920,7273
4506	3,65379,11873,8781
	9,63706,8316
4507	3,65388,75580,7097
	9,63493,0309
4508	3,65398,39073,7406
	9,63279,3250
4509	3,65408,02353,0656
	9,63065,7140
4510	3,65417,65418,7796
	9,62852,1975
4511	3,65427,28270,9771
	9,62638,7756
4512	3,65436,90909,7527
	9,62425,4486
4513	3,65446,53335,2013
	9,62212,2161
4514	3,65456,15547,4174
	9,61999,0778
4515	3,65465,77546,4952
	9,61786,0340
4516	3,65475,39332,5292
	9,61573,0846
4517	3,65485,00905,6138
	9,61360,2296
4518	3,65494,62265,8434
	9,61147,4686
4519	3,65504,23413,3120
	9,60934,8018
4520	3,65513,84348,1138
	9,60722,2291
4521	3,65523,45070,3429
	9,60509,7505
4522	3,65533,05580,0934
	9,60297,3658
4523	3,65542,65877,4592
	9,60085,0750
4524	3,65552,25962,5342
	9,59872,8780
4525	3,65561,85835,4122
	9,59660,7749
4526	3,65571,45496,1871
	9,59448,7654
4527	3,65581,04944,9525
	9,59236,8496
4528	3,65590,64181,8021
	9,59025,0275
4529	3,65600,23206,8296
	9,58813,2988
4530	3,65609,82020,1283
	9,58601,6635
4531	3,65619,40621,7918
	9,58390,1217
4532	3,65628,99011,9135
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4533	3,65638,57190,5867
	9,57967,3181
4534	3,65648,15157,9048
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Num. absolu.	Logarithmi.
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	9,57544,8874
4536	3,65667,30458,8484
	9,57333,8117
4537	3,65676,87792,6601
	9,57122,8289
4538	3,65686,44915,4890
	9,56911,9393
4539	3,65696,01827,4283
	9,56701,1427
4540	3,65705,58528,5711
	9,56490,4387
4541	3,65715,15019,0098
	9,56279,8274
4542	3,65724,71298,8372
	9,56069,3090
4543	3,65734,27368,1462
	9,55858,8834
4544	3,65743,83227,0296
	9,55648,5503
4545	3,65753,38875,5799
	9,55438,3096
4546	3,65762,94313,8895
	9,55228,1615
4547	3,65772,49542,0510
	9,55018,1059
4548	3,65782,04560,1569
	9,54808,1427
4549	3,65791,59368,2996
	9,54598,2716
4550	3,65801,13966,5711
	9,54388,4928
4551	3,65810,68355,0839
	9,54178,8062
4552	3,65820,22533,8701
	9,53969,2117
4553	3,65829,76503,0818
	9,53759,7094
4554	3,65839,30262,7912
	9,53550,2989
4555	3,65848,83813,0901
	9,53340,9804
4556	3,65858,37154,0705
	9,53131,7539
4557	3,65867,90285,8244
	9,52922,6191
4558	3,65877,43208,4435
	9,52713,5760
4559	3,65886,95922,0195
	9,52504,6247
4560	3,65896,48426,6443
	9,52295,7650
4561	3,65906,00722,4093
	9,52086,9969
4562	3,65915,52809,4062
	9,51878,3204
4563	3,65925,04687,7266
	9,51669,7352
4564	3,65934,56357,4618
	9,51461,2414
4565	3,65944,07818,7032
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Num. absolu.	Logarithmi.
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	9,50420,1415
4570	3,65991,62000,6985
	9,50212,1948
4571	3,66001,12212,8933
	9,50004,3391
4572	3,66010,62217,2324
	9,49796,5744
4573	3,66020,12013,8068
	9,49588,9005
4574	3,66029,61602,7073
	9,49381,3174
4575	3,66039,10984,0247
	9,49173,8250
4576	3,66048,60157,8497
	9,48966,4233
4577	3,66058,09124,2730
	9,48759,1122
4578	3,66067,57883,3852
	9,48551,8918
4579	3,66077,06435,2770
	9,48344,7617
4580	3,66086,54780,0387
	9,48137,7221
4581	3,66096,02917,7608
	9,47930,7730
4582	3,66105,50848,5338
	9,47723,9140
4583	3,66114,98572,4478
	9,47517,1455
4584	3,66124,46089,5933
	9,47310,4671
4585	3,66133,93400,0604
	9,47103,8788
4586	3,66143,40503,9392
	9,46897,3806
4587	3,66152,87401,3198
	9,46690,9725
4588	3,66162,34092,2923
	9,46484,6543
4589	3,66171,80576,9466
	9,46278,4260
4590	3,66181,26855,3726
	9,46072,2875
4591	3,66190,72927,6601
	9,45866,2390
4592	3,66200,18793,8991
	9,45660,2801
4593	3,66209,64454,1792
	9,45454,4109
4594	3,66219,09908,5901
	9,45248,6312
4595	3,66228,55157,2213
	9,45042,9411
4596	3,66238,00200,1624
	9,44837,3406
4597	3,66247,45037,5030
	9,44631,8296
4598	3,66256,89669,3326
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4603	3,66304,09748,9396
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4605	3,66322,96345,3286
	9,42990,9536
4606	3,66332,39336,2822
	9,42786,2446
4607	3,66341,82122,5268
	9,42581,6247
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	9,42377,0937
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	9,42172,6513
4610	3,66370,09253,8965
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4611	3,66379,51222,1941
	9,41764,0325
4612	3,66388,92986,2266
	9,41559,8561
4613	3,66398,34546,0827
	9,41355,7681
4614	3,66407,75901,8508
	9,41151,7685
4615	3,66417,17053,6193
	9,40947,8574
4616	3,66426,58001,4767
	9,40744,0346
4617	3,66435,98745,5113
	9,40540,3002
4618	3,66445,39285,8115
	9,40336,6540
4619	3,66454,79622,4655
	9,40133,0958
4620	3,66464,19755,5613
	9,39929,6257
4621	3,66473,59685,1870
	9,39726,2438
4622	3,66482,99411,4308
	9,39522,9500
4623	3,66492,38934,3808
	9,39319,7439
4624	3,66501,78254,1247
	9,39116,6258
4625	3,66511,17370,7505
	9,38913,5955
4626	3,66520,56284,3460
	9,38710,6530
4627	3,66529,94994,9990
	9,38507,7981
4628	3,66539,33502,7971
	9,38305,0310
4629	3,66548,71807,8281
	9,38102,3515
4630	3,66558,09910,1796
	9,37899,7593
4631	3,66567,47809,9389
	9,37697,2548
4632	3,66576,85507,1937
	9,37494,8378
4633	3,66586,23002,0315
	9,37292,5081
4634	3,66595,60294,5396
	9,37090,2656
4635	3,66604,97384,8052
	9,36888,1104
4636	3,66614,34272,9156
	9,36686,0424
4637	3,66623,70958,9580
	9,36484,0617
4638	3,66633,07443,0197
	9,36282,1679
4639	3,66642,43725,1876
	9,36080,3612
4640	3,66651,79805,5488
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	9,35072,6313
4645	3,66698,57183,2966
	9,34871,3456
4646	3,66707,92054,6422
	9,34670,1465
4647	3,66717,26724,7887
	9,34469,0340
4648	3,66726,61193,8227
	9,34268,0081
4649	3,66735,95461,8308
	9,34067,0687
4650	3,66745,29528,8995
	9,33866,2156
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	9,33665,4489
4652	3,66763,97060,5640
	9,33464,7686
4653	3,66773,30525,3326
	9,33264,1745
4654	3,66782,63789,5071
	9,33063,6665
4655	3,66791,96853,1736
	9,32863,2446
4656	3,66801,29716,4182
	9,32662,9090
4657	3,66810,62379,3272
	9,32462,6593
4658	3,66819,94841,9865
	9,32262,4957
4659	3,66829,27104,4822
	9,32062,4178
4660	3,66838,59166,9001
	9,31862,4258
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	9,31662,5197
4662	3,66857,22691,8456
	9,31462,6994
4663	3,66866,54154,5450
	9,31262,9647
4664	3,66875,85417,5097
	9,31063,3156
4665	3,66885,16480,8253
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4666	3,66894,47344,5774
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4667	3,66903,78008,8517
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4668	3,66913,08473,7335
	9,30265,5747
4669	3,66922,38739,3082
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4670	3,66931,68805,6612
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4672	3,66950,28341,0435
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4673	3,66959,57810,2432
	9,29270,3189
4674	3,66968,87080,5621
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4675	3,66978,16152,0854
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4677	3,66996,73699,0850
	9,28475,6464
4678	3,67006,02174,7314
	9,28277,1905
4679	3,67015,30451,9219
	9,28078,8194
4680	3,67024,58530,7412
	9,27880,5332
4681	3,67033,86411,2744
	9,27682,3316
4682	3,67043,14093,6060
	9,27484,2147
4683	3,67052,41577,8207
	9,27286,1825
4684	3,67061,68864,0032
	9,27088,2347
4685	3,67070,95952,2379
	9,26890,3714
4686	3,67080,22842,6093
	9,26692,5927
4687	3,67089,49535,2020
	9,26494,8983
4688	3,67098,76030,1003
	9,26297,2881
4689	3,67108,02327,3884
	9,26099,7624
4690	3,67117,28427,1508
	9,25902,3208
4691	3,67126,54329,4716
	9,25704,9633
4692	3,67135,80034,4349
	9,25507,6900
4693	3,67145,05542,1249
	9,25310,5008
4694	3,67154,30852,6257
	9,25113,3956
4695	3,67163,55966,0213
	9,24916,3743
4696	3,67172,80882,3956
	9,24719,4369
4697	3,67182,05601,8325
	9,24522,5834
4698	3,67191,30124,4159
	9,24325,8136
4699	3,67200,54450,2295
	9,24129,1277
4700	3,67209,78579,3572
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	9,23539,5716
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	9,23343,2200
4704	3,67246,73130,6807
	9,23146,9520
4705	3,67255,96277,6327
	9,22950,7673
4706	3,67265,19228,4000
	9,22754,6659
4707	3,67274,41983,0659
	9,22558,6479
4708	3,67283,64541,7138
	9,22362,7133
4709	3,67292,86904,4271
	9,22166,8619
4710	3,67302,09071,2890
	9,21971,0934
4711	3,67311,31042,3824
	9,21775,4081
4712	3,67320,52817,7905
	9,21579,8058
4713	3,67329,74397,5963
	9,21384,2867
4714	3,67338,95781,8830
	9,21188,8505
4715	3,67348,16970,7335
	9,20993,4970
4716	3,67357,37964,2305
	9,20798,2265
4717	3,67366,58762,4570
	9,20603,0388
4718	3,67375,79365,4958
	9,20407,9337
4719	3,67384,99773,4295
	9,20212,9114
4720	3,67394,19986,3409
	9,20017,9717
4721	3,67403,40004,3126
	9,19822,1145
4722	3,67412,59827,4271
	9,19628,3399
4723	3,67421,79455,7670
	9,19433,6477
4724	3,67430,98889,4147
	9,19239,0381
4725	3,67440,18128,4528
	9,19044,5107
4726	3,67449,37172,9635
	9,18850,0656
4727	3,67458,56023,0291
	9,18655,7028
4728	3,67467,74678,7319
	9,18461,4223
4729	3,67476,93140,1542
	9,18267,2239
4730	3,67486,11407,3781
	9,18073,1075
4731	3,67495,29480,4856
	9,17879,0733
4732	3,67504,47359,5589
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4733	3,67513,65044,6799
	9,17491,2507
4734	3,67522,82535,9306
	9,17297,4623

Num. absolu.	Logarithmi.
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	9,17297,4623
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	9,17103,7557
4736	3,67541,16937,1486
	9,16910,1309
4737	3,67550,33847,2795
	9,16716,5879
4738	3,67559,50563,8674
	9,16523,1266
4739	3,67568,67086,9940
	9,16329,7469
4740	3,67577,83416,7408
	9,16136,4487
4741	3,67586,99553,1895
	9,15943,2320
4742	3,67596,15496,4215
	9,15750,0970
4743	3,67605,31246,5185
	9,15557,0434
4744	3,67614,46803,5619
	9,15364,0711
4745	3,67623,62167,6330
	9,15171,1801
4746	3,67632,77338,8131
	9,14978,3704
4747	3,67641,92317,1835
	9,14785,6419
4748	3,67651,07102,8254
	9,14592,9946
4749	3,67660,21695,8201
	9,14400,4285
4750	3,67669,36096,2487
	9,14207,9434
4751	3,67678,50304,1921
	9,14015,5393
4752	3,67687,64319,7314
	9,13823,2162
4753	3,67696,78142,9476
	9,13630,9741
4754	3,67705,91773,9217
	9,13438,8129
4755	3,67715,05212,7346
	9,13246,7319
4756	3,67724,18459,4665
	9,13054,7325
4757	3,67733,31514,1990
	9,12862,8135
4758	3,67742,44377,0125
	9,12670,9751
4759	3,67751,57047,9876
	9,12479,2173
4760	3,67760,69527,2049
	9,12287,5402
4761	3,67769,81814,7451
	9,12095,9436
4762	3,67778,93910,6887
	9,11904,4273
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	9,11712,9915
4764	3,67797,17528,1075
	9,11521,6361
4765	3,67806,29049,7436
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4766	3,67815,40380,1045
	9,11139,1661
4767	3,67824,51519,2706
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Num. absolu.	Logarithmi.
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4769	3,67842,73214,3388
	9,10566,0625
4770	3,67851,83790,4012
	9,10375,1881
4771	3,67860,94165,5893
	9,10184,3937
4772	3,67870,04349,9830
	9,09993,6794
4773	3,67879,14343,6624
	9,09803,0449
4774	3,67888,24146,7073
	9,09612,4903
4775	3,67897,33759,1976
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4776	3,67906,43181,2131
	9,09231,6205
4777	3,67915,52412,8336
	9,09041,3050
4778	3,67924,61454,1386
	9,08851,0694
4779	3,67933,70305,2080
	9,08660,9133
4780	3,67942,78966,1214
	9,08470,8367
4781	3,67951,87436,9581
	9,08280,8396
4782	3,67960,95717,7977
	9,08090,9220
4783	3,67970,03808,7197
	9,07901,0839
4784	3,67979,11709,8036
	9,07711,3251
4785	3,67988,19421,1287
	9,07521,6456
4786	3,67997,26942,7743
	9,07332,0453
4787	3,68006,34274,8196
	9,07142,5242
4788	3,68015,41417,3438
	9,06953,0824
4789	3,68024,48370,4262
	9,06763,7196
4790	3,68033,55134,1457
	9,06574,4358
4791	3,68042,61708,5815
	9,06385,2310
4792	3,68051,68093,8125
	9,06196,1053
4793	3,68060,74289,9178
	9,06007,0585
4794	3,68069,80296,9763
	9,05818,0905
4795	3,68078,86115,0668
	9,05629,2013
4796	3,68087,91744,2681
	9,05440,3908
4797	3,68096,97184,6589
	9,05251,6592
4798	3,68106,02436,3181
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4799	3,68115,07499,3242
	9,04874,4317
4800	3,68124,12373,7559
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4801	3,68133,17059,6917
	9,94497,5184
4802	3,68142,21557,2101
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4803	3,68151,25866,3895
	9,04120,9191
4804	3,68160,29987,3086
	9,03932,7370
4805	3,68169,33920,0456
	9,03744,6332
4806	3,68178,37664,6788
	9,03556,6075
4807	3,68187,41221,2863
	9,03368,6603
4808	3,68196,44589,9466
	9,03180,7912
4809	3,68205,47770,7379
	9,02993,0003
4810	3,68214,50763,7383
	9,02805,2873
4811	3,68223,53569,0256
	9,02617,6525
4812	3,68232,56186,6781
	9,02430,0955
4813	3,68241,58616,7736
	9,02242,6165
4814	3,68250,60859,3901
	9,02055,2154
4815	3,68259,62914,6055
	9,01867,8922
4816	3,68268,64782,4977
	9,01680,6466
4817	3,68277,66463,1443
	9,01493,4789
4818	3,68286,67956,6232
	9,01306,3889
4819	3,68295,69263,0121
	9,01119,3764
4820	3,68304,70382,3885
	9,00932,4415
4821	3,68313,71314,8300
	9,00745,5843
4822	3,68322,72060,4143
	9,00558,8045
4823	3,68331,72619,2188
	9,00372,1021
4824	3,68340,72991,3209
	9,00185,4772
4825	3,68349,73176,7981
	8,99998,9296
4826	3,68358,73175,7277
	8,99812,4592
4827	3,68367,72988,1869
	8,99626,0662
4828	3,68376,72614,2531
	8,99439,7504
4829	3,68385,72054,0035
	8,99253,5116
4830	3,68394,71307,5151
	8,99067,3501
4831	3,68403,70374,8652
	8,98881,2655
4832	3,68412,69256,1307
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4833	3,68421,67951,3887
	8,98509,3275
4834	3,68430,66460,7162
	8,98323,4739

Num. abſolu.	Logarithmi.
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4835	3,68439,64784,1901
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4836	3,68448,62921,8873
	8,97951,9973
4837	3,68457,60873,8846
	8,97766,3740
4838	3,68466,58640,2586
	8,97580,8276
4839	3,68475,56221,0862
	8,97395,3579
4840	3,68484,53616,4441
	8,97209,9648
4841	3,68493,50826,4089
	8,97024,6482
4842	3,68502,47851,0571
	8,96839,4083
4843	3,68511,44690,4654
	8,96654,2447
4844	3,68520,41344,7101
	8,96469,1577
4845	3,68529,37813,8678
	8,96284,1471
4846	3,68538,34098,0149
	8,96099,2127
4847	3,68547,30197,2276
	8,95914,3547
4848	3,68556,26111,5823
	8,95729,5730
4849	3,68565,21841,1553
	8,95544,8673
4850	3,68574,17386,0226
	8,95360,2380
4851	3,68583,12746,2606
	8,95175,6847
4852	3,68592,07921,9453
	8,94991,2075
4853	3,68601,02913,1528
	8,94806,8064
4854	3,68609,97719,9592
	8,94622,4811
4855	3,68618,92342,4403
	8,94438,2317
4856	3,68627,86780,6720
	8,94254,0583
4857	3,68636,81034,7303
	8,94069,9608
4858	3,68645,75104,6911
	8,93885,9390
4859	3,68654,68990,6301
	8,93701,9928
4860	3,68663,62692,6229
	8,93518,1225
4861	3,68672,56210,7454
	8,93334,3277
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	8,93150,6085
4863	3,68690,42695,6816
	8,92966,9651
4864	3,68699,35662,6467
	8,92783,3970
4865	3,68708,28446,0437
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4866	3,68717,21045,9480
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4867	3,68726,13462,4350
	8,92233,1452

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4869	3,68743,97745,4589
	8,91866,6875
4870	3,68752,89612,1464
	8,91683,5713
4871	3,68761,81295,7177
	8,91500,5304
4872	3,68770,72796,2481
	8,91317,5648
4873	3,68779,64113,8129
	8,91134,6742
4874	3,68788,55248,4871
	8,90951,8585
4875	3,68797,46200,3456
	8,90769,1178
4876	3,68806,36969,4634
	8,90586,4522
4877	3,68815,27555,9156
	8,90403,8615
4878	3,68824,17959,7771
	8,90221,3456
4879	3,68833,08181,1227
	8,90038,9044
4880	3,68841,98220,0271
	8,89856,5381
4881	3,68850,88076,5652
	8,89674,2465
4882	3,68859,77750,8117
	8,89492,0295
4883	3,68868,67242,8412
	8,89309,8872
4884	3,68877,56552,7284
	8,89127,8195
4885	3,68886,45680,5479
	8,88945,8263
4886	3,68895,34626,3742
	8,88763,9076
4887	3,68904,23390,2818
	8,88582,0633
4888	3,68913,11972,3451
	8,88400,2933
4889	3,68922,00372,6384
	8,88218,5978
4890	3,68930,88591,2362
	8,88036,9766
4891	3,68939,76628,2128
	8,87855,4297
4892	3,68948,64483,6425
	8,87673,9569
4893	3,68957,52157,3994
	8,87492,5583
4894	3,68966,39649,9577
	8,87311,2339
4895	3,68975,26961,1916
	8,87129,9835
4896	3,68984,14091,1751
	8,86948,8071
4897	3,68993,01039,9822
	8,86767,7047
4898	3,69001,87807,6869
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4899	3,69010,74394,3633
	8,86405,9218
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4902	3,69037,33069,1605 8,85863,3012
4903	3,69046,18932,4617 8,85682,6418
4904	3,69055,04615,1035 8,85502,0562
4905	3,69063,90117,1597 8,85321,5441
4906	3,69072,75438,7038 8,85141,1054
4907	3,69081,60579,8092 8,84960,7404
4908	3,69090,45540,5496 8,84780,4491
4909	3,69099,30320,9987 8,84600,2310
4910	3,69108,14921,2298 8,84420,0863
4911	3,69116,99341,3161 8,84240,0150
4912	3,69125,83581,3311 8,84060,0172
4913	3,69134,67641,3483 8,83880,0924
4914	3,69143,51521,4407 8,83700,2408
4915	3,69152,35221,6815 8,83520,4626
4916	3,69161,18742,1441 8,83340,7575
4917	3,69170,02082,9016 8,83161,1253
4918	3,69178,85244,0269 8,82981,5664
4919	3,69187,68225,5933 8,82802,0803
4920	3,69196,51027,6736 8,82622,6672
4921	3,69205,33650,3408 8,82443,3270
4922	3,69214,16093,6678 8,82264,0598
4923	3,69222,98357,7276 8,82084,8652
4924	3,69231,80442,5928 8,81905,7435
4925	3,69240,62348,3363 8,81726,6946
4926	3,69249,44075,0309 8,81547,7183
4927	3,69258,25622,7492 8,81368,8146
4928	3,69267,06991,5638 8,81189,9834
4929	3,69275,88181,5472 8,81011,2250
4930	3,69284,69192,7723 8,80832,5391
4931	3,69293,50025,3114 8,80653,9256
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4933	3,69311,11154,6215 8,80296,9158
4934	3,69319,91451,5373 8,80118,5193

Num. absolu	Logarithmi.
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4935	3,69328,71570,0566 8,79940,1953
4936	3,69337,51510,2519 8,79761,9435
4937	3,69346,31272,1954 8,79583,7638
4938	3,69355,10855,9592 8,79405,6564
4939	3,69363,90261,6156 8,79227,6210
4940	3,69372,69489,2365 8,79049,6577
4941	3,69381,48538,8942 8,78871,7665
4942	3,69390,27410,6607 8,78693,9471
4943	3,69399,06104,6078 8,78516,1998
4944	3,69407,84620,8076 8,78338,5244
4945	3,69416,62959,3320 8,78160,9208
4946	3,69425,41120,2528 8,77983,3890
4947	3,69434,19103,6418 8,77805,9291
4948	3,69442,96909,5709 8,77628,5407
4949	3,69451,74538,1116 8,77451,2241
4950	3,69460,51989,3357 8,77273,9791
4951	3,69469,29263,3148 8,77096,8058
4952	3,69478,06360,1206 8,76919,7040
4953	3,69486,83279,8246 8,76742,6730
4954	3,69495,60022,4982 8,76565,7148
4955	3,69504,36588,2130 8,76388,8273
4956	3,69513,12977,0403 8,76212,0112
4957	3,69521,89189,0515 8,76035,2665
4958	3,69530,65224,3180 8,75858,5931
4959	3,69539,41082,9111 8,75681,9909
4960	3,69548,16764,9020 8,75505,4509
4961	3,69556,92270,3619 8,75329,0000
4962	3,69565,67599,3619 8,75152,6113
4963	3,69574,42751,9732 8,74976,2937
4964	3,69583,17728,2669 8,74800,0471
4965	3,69591,92528,3140 8,74623,8715
9466	3,69600,67152,1855 8,74447,7667
4967	3,69609,41599,9522 8,74271,7330

Num. absolu	Logarithmi.
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4969	3,69626,89967,4553 8,73919,8780
4970	3,69635,63887,3333 8,73744,0567
4971	3,69644,37631,3900 8,73568,3061
4972	3,69653,11199,6961 8,73392,6262
4973	3,69661,84592,3223 8,73217,0169
4974	3,69670,57809,3392 8,73041,4782
4975	3,69679,30850,8174 8,72866,0102
4976	3,69688,03716,8276 8,72690,6126
4977	3,69696,76407,4402 8,72515,2855
4978	3,69705,48922,7257 8,72340,0289
4979	3,69714,21262,7546 8,72164,8426
4980	3,69722,93427,5972 8,71989,7266
4981	3,69731,65417,3238 8,71814,6811
4982	3,69740,37232,0049 8,71639,7058
4983	3,69749,08871,7107 8,71464,8006
4984	3,69757,80336,5113 8,71289,9655
4985	3,69766,51626,4768 8,71115,2007
4986	3,69775,22741,6775 8,70940,5061
4987	3,69783,63682,1836 8,70765,8814
4988	3,69792,64448,0650 8,70591,3267
4989	3,69801,35039,3917 8,70416,8422
4990	3,69810,05456,2339 8,70242,4273
4991	3,69818,75698,6612 8,70068,0824
4992	3,69827,45766,7436 8,69893,8075
4993	3,69836,15660,5511 8,69719,6022
4994	3,69844,85380,1533 8,69545,4667
4995	3,69853,54925,6200 8,69371,4009
4996	3,69862,24297,0209 8,69197,4049
4997	3,69870,93494,4258 8,69023,4785
4998	3,69879,62517,9043 8,68849,6216
4999	3,69888,31367,5259 8,68675,8343
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Num. absolu	Logarithmi.	Num. absolu.	Logarithmi.	Num. absolu	Logarithmi.
5001	3,69905,68545,4766 8,68328,4682	5034	3,70191,32112,1235 8,62636,7729	5067	3,70475,09042,9067 8,57019,2073
5002	3,69914,36873,9448 8,68154,8893	5035	3,70199,94748,8964 8,62465,4618	5068	3,70483,66062,1140 8,56850,1200
5003	3,69923,05028,8341 8,67981,3797	5036	3,70208,57214,3582 8,62294,2189	5069	3,70492,22912,2340 8,56681,0694
5004	3,69931,73010,2138 8,67807,9396	5037	3,70217,19508,5771 8,62123,0439	5070	3,70500,79593,3334 8,56512,1454
5005	3,69940,40818,1534 8,67634,5687	5038	3,70225,81631,6210 8,61951,9367	5071	3,70509,36105,4788 8,56343,2580
5006	3,69949,08452,7221 8,67461,2671	5039	3,70234,43583,5577 8,61780,8975	5072	3,70517,92448,7368 8,56174,4373
5007	3,69957,75913,9892 8,67288,0346	5040	3,70243,05364,4552 8,61609,9263	5073	3,70526,48623,1741 8,56005,6831
5008	3,69966,43202,0238 8,67114,8714	5041	3,70251,66974,3815 8,61439,0228	5074	3,70535,04628,8572 8,55836,9953
5009	3,69975,10316,8952 8,66941,7772	5042	3,70260,28413,4043 8,61268,1870	5075	3,70543,60465,8525 8,55668,3741
5010	3,69983,77258,6724 8,66768,7523	5043	3,70268,89681,5913 8,61097,4191	5076	3,70552,16134,2266 8,55499,8193
5011	3,69992,44027,4247 8,66595,7964	5044	3,70277,50779,0104 8,60926,7188	5077	3,70560,71634,0459 8,55331,3310
5012	3,70001,10623,2211 8,66422,9094	5045	3,70286,11705,7292 8,60756,0863	5078	3,70569,26965,3769 8,55162,9090
5013	3,70009,77046,1305 8,66250,0914	5046	3,70294,72461,8155 8,60585,5213	5079	3,70577,82128,2859 8,54994,5532
5014	3,70018,43296,2219 8,66077,3424	5047	3,70303,33047,3368 8,60415,0239	5080	3,70586,37122,8392 8,54826,2638
5015	3,70027,09373,5643 8,65904,6623	5048	3,70311,93462,3607 8,60244,5941	5081	3,70594,91949,1030 8,54658,0405
5016	3,70035,75278,2266 8,65732,0509	5049	3,70320,53706,9548 8,60074,2318	5082	3,70603,46607,1435 8,54489,8835
5017	3,70044,41010,2775 8,65559,5084	5050	3,70329,13781,1866 8,59903,9369	5083	3,70612,01097,0270 8,54321,7927
5018	3,70053,06569,7859 8,65387,0347	5051	3,70337,73685,1235 8,59733,7094	5084	3,70620,55418,8197 8,54153,7679
5019	3,70061,71956,8206 8,65214,6297	5052	3,70346,33418,8329 8,59563,5494	5085	3,70629,09572,5876 8,53985,8093
5020	3,70070,37171,4503 8,65042,2932	5053	3,70354,92982,3823 8,59393,4567	5086	3,70637,63558,3969 8,53817,9167
5021	3,70079,02213,7435 8,64870,0256	5054	3,70363,52375,8390 8,59223,4312	5087	3,70646,17376,3136 8,53650,0901
5022	3,70087,67083,7691 8,64697,8264	5055	3,70372,11599,2702 8,59053,4731	5088	3,70654,71026,4037 8,53482,3293
5023	3,70096,31781,5955 8,64525,6959	5056	3,70380,70652,7433 8,58883,5821	5089	3,70663,24508,7330 8,53314,6346
5024	3,70104,96307,2914 8,64353,6339	5057	3,70389,29536,3254 8,58713,7584	5090	3,70671,77823,3676 8,53147,0058
5025	3,70113,60660,9253 8,64181,6404	5058	3,70397,88250,0838 8,58544,0018	5091	3,70680,30970,8734 8,52979,4428
5026	3,70122,24842,5657 8,64009,7151	5059	3,70406,46794,0856 8,58374,3124	5092	3,70688,83949,8162 8,52811,9457
5027	3,70130,88852,2808 8,63837,8584	5060	3,70415,05168,3980 8,58204,6899	5093	3,70697,36761,7619 8,52644,5141
5028	3,70139,52690,1392 8,63666,0701	5061	3,70423,63373,0879 8,58035,1344	5094	3,70705,89406,2760 8,52477,1485
5029	3,70148,16356,2093 8,63494,3500	5062	3,70432,21408,2223 8,57865,6460	5095	3,70714,41883,4245 8,52309,8485
5030	3,70156,79850,5593 8,63322,6981	5063	3,70440,79273,8683 8,57696,2246	5096	3,70722,94193,2730 8,52142,6141
5031	3,70165,43173,2574 8,63151,1147	5064	3,70449,36970,0929 8,57526,8701	5097	3,70731,46335,8871 8,51975,4455
5032	3,70174,06324,3721 8,62979,5993	5065	3,70457,94496,9630 8,57357,5823	5098	3,70739,98311,3326 8,51808,3424
5033	3,70182,69303,9714 8,62808,1521	5066	3,70466,51854,5453 8,57188,3614	5099	3,70748,50119,6750 8,51641,3047
5034	3,70191,32112,1235 8,62636,7729	5067	3,70475,09042,9067 8,57019,2073	5100	3,70757,01760,9794 8,51474,3325

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5102	3,70774,04542,7377 8,51140,5846
5103	3,70782,55683,3223 8,50973,8087
5104	3,70791,06657,1310 8,50807,0982
5105	3,70799,57464,2292 8,50640,4531
5106	3,70808,08104,6823 8,50473,8731
5107	3,70816,58578,5554 8,50307,3584
5108	3,70825,08885,9138 8,50140,9088
5109	3,70833,59026,8226 8,49974,5245
5110	3,70842,09001,3471 8,49808,2053
5111	3,70850,58809,5524 8,49641,9510
5112	3,70859,08451,5034 8,49475,7619
5113	3,70867,57927,2653 8,49309,6378
5114	3,70876,07236,9031 8,49143,5787
5115	3,70884,56380,4818 8,48977,5844
5116	3,70893,05358,0662 8,48811,6550
5117	3,70901,54169,7212 8,48645,7905
5118	3,70910,02815,5117 8,48479,9908
5119	3,70918,51295,5025 8,48314,2558
5120	3,70926,99609,7583 8,48148,5857
5121	3,70935,47758,3440 8,47982,9801
5122	3,70943,95741,3241 8,47817,4393
5123	3,70952,43558,7634 8,47651,9630
5124	3,70960,91210,7264 8,47486,5515
5125	3,70969,38697,2779 8,47321,2044
5126	3,70977,86018,4823 8,47155,9217
5127	3,70986,33174,4040 8,46990,7036
5128	3,70994,80165,1076 8,46825,5499
5129	3,71003,26990,6575 8,46660,4607
5130	3,71011,73651,1182 8,46495,4357
5131	3,71020,20146,5539 8,46330,4750
5132	3,71028,66477,0289 8,46165,5787
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5208	3,71667,09755,6013 8,33818,7256
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5212	3,71700,44070,4056 8,33178,8648
5213	3,71708,77249,2704 8,33019,0528
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5222	3,71783,68674,8693 8,31583,5007
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5225	3,71808,62947,8309 8,31106,0821
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5230	3,71850,16888,6727 8,30311,6016
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5307	3,72484,90876,2939 8,18265,6300
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5313	3,72533,98159,0974 8,17341,6451
5314	3,72542,15500,7425 8,17187,8506
5315	3,72550,32688,5931 8,17034,1138
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5322	3,72607,48702,1537 8,15959,5738
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5324	3,72623,80468,0264 8,15653,0813
5325	3,72631,96121,1077 8,15499,9215
5326	3,72640,11621,0292 8,15346,8191
5327	3,72648,26967,8483 8,15193,7742
5328	3,72656,42161,6225 8,15040,7866
5329	3,72664,57202,4091 8,14887,8566
5330	3,72672,72090,2657 8,14734,9839
5331	3,72680,86825,2496 8,14582,1686
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5338	3,72737,85694,5148 8,13514,0643
5339	3,72745,99208,5791 8,13361,7065
5340	3,72754,12570,2856 8,13209,4058
5341	3,72762,25779,6914 8,13057,1622
5342	3,72770,38836,8536 8,12904,9755
5343	3,72778,51741,8291 8,12752,8458
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5345	3,72794,77095,4480 8,12448,7572
5346	3,72802,89544,2052 8,12296,7982
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5360	3,72916,47896,9276 8,10175,3254
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5363	3,72940,77969,6307 8,09722,1649
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5372	3,73013,60039,9667 8,08365,7201
5373	3,73021,68405,6868 8,08215,2846
5374	3,73029,76620,9714 8,08064,9050
5375	3,73037,84685,8764 8,07914,5812
5376	3,73045,92600,4576 8,07764,3135
5377	3,73054,00364,7711 8,07614,1017
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5383	3,73102,43798,1569 8,06714,0023
5384	3,73110,50512,1592 8,06564,1809
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5386	3,73126,63490,7549 8,06264,7046
5387	3,73134,69755,4595 8,06115,0500
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5390	3,73158,87651,8674 8,05666,4189
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5392	3,73174,98835,2726 8,05367,6090
5393	3,73183,04202,8816 8,05218,2871
5394	3,73191,09421,1687 8,05069,0206
5395	3,73199,14490,1893 8,04919,8094
5396	3,73207,19409,9987 8,04770,6535
5397	3,73215,24180,6522 8,04621,5528
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	8,03430,7337
5406	3,73287,60413,6270
	8,03282,1292
5407	3,73295,63695,7562
	8,03133,5796
5408	3,73303,66829,3358
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5413	3,73343,80270,9106
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5414	3,73351,82514,3449
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5415	3,73359,84609,6134
	8,01947,1575
5416	3,73367,86556,7709
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5417	3,73375,88355,8720
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5418	3,73383,90006,9714
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5419	3,73391,91510,1239
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5423	3,73423,96044,3546
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5424	3,73431,96808,5901
	8,00616,6156
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5426	3,73447,97894,2557
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5427	3,73455,98215,7947
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	7,99437,6127
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	7,99143,4045
5435	3,73519,95484,2233
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5436	3,73527,94480,6047
	7,98849,4125
5437	3,73535,93330,0172
	7,98702,4977
5438	3,73543,92032,5149
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5439	3,73551,90588,1519
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5467	3,73774,90738,9156
	7,94320,0423
5468	3,73782,85058,9579
	7,94174,7885
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	7,91136,6847
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	7,90704,5665
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5615	3,74934, 97605,9747
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5616	3,74942, 70991,2175
	7, 73247, 5440
5617	3,74950, 44238,7615
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5619	3,74965, 90320,9490
	7, 72834, 7416
5620	3,74973, 63155,6906
	7, 72697, 2388
5621	3,74981, 35852,9294
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5622	3,74989, 08412,7142
	7, 72422, 3798
5623	3,74996, 80835,0940
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5624	3,75004, 53120,1176
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5626	3,75019, 97278,2918
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5627	3,75027, 69151,5399
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5629	3,75043, 12486,6021
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5630	3,75050, 83948,5135
	7, 71324, 8965
5631	3,75058, 55273,4100
	7, 71187, 9305
5632	3,75066, 26461,3405
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5636	3,75097, 09844,3732
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5638	3,75112, 50715,3558
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5648	3,75189, 46880,4375
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	7, 66830, 5517
5664	3,75312, 32446,8170
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Num. absolu	Logarithmi.
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	7, 62789, 9938
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	7, 62656, 0418
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	7, 07147,2489
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6145	3,78852, 18872, 2246
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	7, 00870,6251
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6213	3,79330,13536,1312 6,98953,0585
6214	3,79337,12489,1897 6,98840,5870
6215	3,79344,11329,7767 6,98728,1519
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6217	3,79358,08673,6815 6,98503,3902
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6240	3,79518,45896,8242 6,95928,9846
6241	3,79525,41825,8088 6,95817,4844
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6243	3,79539,33349,3129 6,95594,5909
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6329	3,80133,50956,7454 6,86143,4281
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6331	3,80147,23135,2147 6,85926,6884
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6338	3,80195,22348,5429 6,85169,1768
6339	3,80202,07517,7197 6,85061,0976
6340	3,80208,92578,8173 6,84953,0523
6341	3,80215,77531,8696 6,84845,0411
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6345	3,80243,16264,3072 6,84413,3368
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6372	3,80427,57671,2909 6,71513,5077
6373	3,80434,39184,7986 6,81406,5785
6374	3,80441,20591,3771 6,81299,6828
6375	3,80448,01891,0599 6,81192,8207
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6377	3,80461,64169,8726 6,80979,1967
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6409	3,80679,02715,8408
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6416	3,80726,43552,7611
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6418	3,80739,97127,5948
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6437	3,80868,35091,2897
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6783	3,83142,18170,6502
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	6,38245,9882
6805	3,83282,81295,3937
	6,38152,2043
6806	3,83289,19447,5980
	6,38058,4480
6807	3,83295,57506,0460
	6,37964,7194
6808	3,83301,95470,7654
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6809	3,83308,33341,7836
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	6,37683,6982
6811	3,83321,08802,8261
	6,37590,0796
6812	3,83327,46392,9057
	6,37496,4883
6813	3,83333,83889,3940
	6,37402,9246
6814	3,83340,21292,3186
	6,37309,3883
6815	3,83346,58601,7069
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6816	3,83352,95817,5864
	6,37122,3982
6817	3,83359,32939,9846
	6,37028,9442
6818	3,83365,69968,9288
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6819	3,83372,06904,4464
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6820	3,83378,43746,5648
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6821	3,83384,80495,3115
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6822	3,83391,17150,7138
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6823	3,83397,53712,7991
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6826	3,83416,62839,4261
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6828	3,83429,35124,4269
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6829	3,83435,71127,1841
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6891	3,83828,22499,1469
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6892	3,83834,52687,7599
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6893	3,83840,82784,9419
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6895	3,83853,42705,1187
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6896	3,83859,72528,1666
	6,29731,7229
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	6, 29002,0749
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	6, 27185,3313
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	6, 26732,7840
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	6, 26642,3530
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	6, 26551,9477
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	6, 26010,0651
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	6, 25829,6458
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	6, 25469,1188
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	6, 25379,0520
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	6, 25019,0440
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	6, 24929,1067
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6964	3,84285,87624,4528
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6985	3,84416,64104,5020
	6, 21708,5143
6986	3,84422,85813,0163
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6987	3,84429,07432,5434
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	6, 21263,8332
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	6, 21174,9733
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	6, 21086,1390
6993	3,84466,35282,4024
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6994	3,84472,56279,7323
	6, 20908,5462
6995	3,84478,77188,2785
	6, 20819,7879
6996	3,84484,98008,0664
	6, 20731,0550
6997	3,84491,18739,1214
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7004	3,84534,61374,1141
	6,20022,1038
7005	3,84540,81396,2179
	6,19933,5989
7006	3,84547,01329,8168
	6,19845,1190
7007	3,84553,21174,9358
	6,19756,6645
7008	3,84559,40931,6003
	6,19668,2352
7009	3,84565,60599,8355
	6,19579,8311
7010	3,84571,80179,6666
	6,19491,4522
7011	3,84577,99671,1188
	6,19403,0987
7012	3,84584,19074,2175
	6,19314,7704
7013	3,84590,38388,9879
	6,19226,4671
7014	3,84596,57615,4550
	6,19138,1889
7015	3,84602,76753,6439
	6,19049,9359
7016	3,84608,95803,5798
	6,18961,7083
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7018	3,84621,33638,7939
	6,18785,3283
7019	3,84627,52424,1222
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	6,18609,0486
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	6,18520,9465
7022	3,84646,08251,2932
	6,18432,8696
7023	3,84652,26684,1628
	6,18344,8176
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	6,18256,7907
7025	3,84664,63285,7711
	6,18168,7889
7026	3,84670,81454,5600
	6,18080,8122
7027	3,84676,99535,3722
	6,17992,8605
7028	3,84683,17528,2327
	6,17904,9336
7029	3,84689,35433,1663
	6,17817,0319
7030	3,84695,53250,1982
	6,17729,1553
7031	3,84701,70979,3535
	6,17641,3037
7032	3,84707,88620,6572
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	6,17202,4197
7037	3,84738,75510,2739
	6,17114,7178
7038	3,84744,92624,9917
	6,17027,0408
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	6,16939,3886
7040	3,84757,26591,4211
	6,16851,7614
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	6,16764,1592
7042	3,84769,60207,3417
	6,16676,5817
7043	3,84775,76883,9234
	6,16589,0291
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	6,16501,5013
7045	3,84788,09974,4538
	6,16413,9985
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	6,16326,5204
7047	3,84800,42714,9727
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	6,15889,5024
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7053	3,84837,38838,4460
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7059	3,84874,31818,9569
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7061	3,84886,62114,9478
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7062	3,84892,77132,2708
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7063	3,84898,92062,5116
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7071	3,84948,08372,4398
	6,14147,6103
7072	3,84954,22520,0501
	6,14060,7743
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	6,13973,9629
7074	3,84966,50554,7873
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7075	3,84972,64441,9633
	6,13800,4136
7076	3,84978,78242,3769
	6,13713,6757
7077	3,84984,91956,0526
	6,13626,9624
7078	3,84991,05583,0150
	6,13540,2735
7079	3,84997,19123,2885
	6,13453,6092
7080	3,85003,32576,8977
	6,13366,9693
7081	3,85009,45943,8670
	6,13280,3539
7082	3,85015,59224,2209
	6,13193,7630
7083	3,85021,72417,9839
	6,13107,1965
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	6,13020,6544
7085	3,85033,98545,8348
	6,12934,1367
7086	3,85040,11479,9715
	6,12847,6436
7087	3,85046,24327,6151
	6,12761,1748
7088	3,85052,37088,7899
	6,12674,7304
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	6,12584,3104
7090	3,85064,62351,8307
	6,12501,9147
7091	3,85070,74853,7454
	6,12415,5434
7092	3,85076,87269,2888
	6,12329,1965
7093	3,85082,99598,4853
	6,12242,8739
7094	3,85089,11841,3592
	6,12156,5757
7095	3,85095,23997,9349
	6,12070,3018
7096	3,85101,36068,2367
	6,11984,0522
7097	3,85107,48052,2889
	6,11897,8268
7098	3,85113,59950,1157
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7104	3,85150,29527,7055
	6,11294,9295
7105	3,85156,40822,6350
	6,11208,8982
7106	3,85162,52031,5332
	6,11122,8911
7107	3,85168,63154,4243
	6,11036,9084
7108	3,85174,74191,3327
	6,10950,9498
7109	3,85180,85142,2825
	6,10865,0153
7110	3,85186,96007,2977
	6,10779,1050
7111	3,85193,06786,4027
	6,10693,2188
7112	3,85199,17479,6215
	6,10607,3569
7113	3,85205,28086,9784
	6,10521,5191
7114	3,85211,38608,4975
	6,10435,7055
7115	3,85217,49044,2030
	6,10349,9159
7116	3,85223,59394,1189
	6,10264,1504
7117	3,85229,69658,2693
	6,10168,4090
7118	3,85235,79836,6783
	6,10092,6917
7119	3,85241,89929,3700
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7120	3,85247,99936,3686
	6,09921,3294
7121	3,85254,09857,6980
	6,09835,6843
7122	3,85260,19693,3823
	6,09750,0634
7123	3,85266,29443,4457
	6,09664,4664
7124	3,85272,39107,9121
	6,09578,8934
7125	3,85278,48686,8055
	6,09493,3445
7126	3,85284,58180,1500
	6,09407,8195
7127	3,85290,67587,9695
	6,09322,3187
7128	3,85296,76910,2882
	6,09236,8418
7129	3,85302,86147,1300
	6,09151,3887
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7131	3,85315,04364,4784
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7132	3,85321,13345,0332
	6,08895,1737
7133	3,85327,22240,2069
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	6,08639,1740
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7138	3,85357,65436,1964
	6,08383,3896
7139	3,85363,73819,5860
	6,08298,1758
7140	3,85369,82117,7618
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7141	3,85375,90330,7477
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7147	3,85412,37821,0117
	6,07617,3244
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	6,07532,3251
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7150	3,85430,60418,0108
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7153	3,85448,82250,4443
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7154	3,85454,89358,1295
	6,07022,8285
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7156	3,85467,03318,9533
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7157	3,85473,10172,1394
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	6,06514,1856
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	6,06344,8274
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	6,06260,1837
7164	3,85515,55771,7699
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	6,05921,8453
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7170	3,85551,91556,6780
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7178	3,85600,34539,9721
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7179	3,85606,39533,3309
	6,04909,0921
7180	3,85612,44442,4231
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	6,04740,6288
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	6,04656,4325
7183	3,85630,58664,3331
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7184	3,85636,63236,5925
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7186	3,85648,72128,6862
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7187	3,85654,76448,5674
	6,04235,8019
7188	3,85660,80684,3693
	6,04151,7460
7189	3,85666,84836,1153
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	6,03983,7043
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7192	3,85684,96787,2517
	6,03815,7562
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7194	3,85697,04334,8250
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7195	3,85703,07982,7263
	6,03564,0089
7196	3,85709,11546,7352
	6,03480,1397
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7204	3,85757,37041,4749
	6,02810,0251
7205	3,85763,39851,5000
	6,02726,3654
7206	3,85769,42577,8654
	6,02642,7290
7207	3,85775,45220,5944
	6,02559,1157
7208	3,85781,47779,7101
	6,02475,5255
7209	3,85787,50255,2356
	6,02391,9587
7210	3,85793,52647,1943
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	6,02224,8944
7212	3,85805,57180,5036
	6,02141,3970
7213	3,85811,59321,9006
	6,02057,9228
7214	3,85817,61379,8234
	6,01974,4718
7215	3,85823,63354,2952
	6,01891,0438
7216	3,85829,65245,3390
	6,01807,6388
7217	3,85835,67052,9778
	6,01724,2571
7218	3,85841,68777,2349
	6,01640,8985
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	6,01557,5630
7220	3,85853,71975,6964
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7221	3,85859,73449,9469
	6,01390,9611
7222	3,85865,74840,9080
	6,01307,6949
7223	3,85871,76148,6029
	6,01224,4516
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	6,01141,2313
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	6,01058,0342
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	6,00891,7089
7228	3,85901,81438,8890
	6,00808,5807
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	6,00725,4756
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7231	3,85919,83615,3387
	6,00559,3342
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	6,00144,3828
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	6,00061,4613
7238	3,85961,85787,7219
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7239	3,85967,85766,2845
	5,99895,6869
7240	3,85973,85661,9714
	5,99812,8342
7241	3,85979,85474,8056
	5,99730,0043
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	5,99647,1972
7243	3,85991,84852,0071
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	5,99233,5048
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7249	3,86027,80997,5224
	5,99068,1875
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	5,98985,5631
7251	3,86039,79051,2730
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7252	3,86045,77954,2345
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7253	3,86051,76774,6173
	5,98737,8267
7254	3,86057,75512,4440
	5,98655,2934
7255	3,86063,74167,7374
	5,98572,7829
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	5,98490,2950
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	5,98325,3876
7259	3,86087,67964,0329
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	5,96845,3001
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	5,96763,2877
7278	3,86201,20512,5022
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	5,96599,3304
7280	3,86213,13793,1304
	5,96517,3856
7281	3,86219,10310,5160
	5,96435,4633
7282	3,86225,06745,9793
	5,96353,5635
7283	3,86231,03099,5428
	5,96271,6861
7284	3,86236,99371,2289
	5,96189,8312
7285	3,86242,95561,0601
	5,96107,9989
7286	3,86248,91669,0590
	5,96026,1890
7287	3,86254,87695,2480
	5,95944,4015
7288	3,86260,83639,6495
	5,95862,6364
7289	3,86266,79502,2859
	5,95780,8938
7290	3,86272,75283,1797
	5,95699,1737
7291	3,86278,70982,3534
	5,95617,4759
7292	3,86284,66599,8293
	5,95535,8006
7293	3,86290,62135,6299
	5,95454,1476
7294	3,86296,57589,7775
	5,95372,5171
7295	3,86302,52962,2946
	5,95290,9090
7296	3,86308,48253,2036
	5,95209,3231
7297	3,86314,43462,5267
	5,95127,7596
7298	3,86320,38590,2863
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7304	3,86356,07645,2624
	5,94557,4408
7305	3,86362,02202,7032
	5,94476,0558
7306	3,86367,96678,7590
	5,94394,6931
7307	3,86373,91073,4521
	5,94313,3528
7308	3,86379,85386,8049
	5,94232,0348
7309	3,86385,79618,8397
	5,94150,7389
7310	3,86391,73769,5786
	5,94069,4653
7311	3,86397,67839,0439
	5,93988,2139
7312	3,86403,61827,2578
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7313	3,86409,55734,2425
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7314	3,86415,49560,0203
	5,93744,5930
7315	3,86421,43304,6133
	5,93663,4305
7316	3,86427,36968,0438
	5,93582,2901
7317	3,86433,30550,3339
	5,93501,1720
7318	3,86439,24051,5059
	5,93420,0760
7319	3,86445,17471,5819
	5,93339,0021
7320	3,86451,10810,5839
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	5,93176,9208
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	5,93095,9134
7323	3,86468,90341,3684
	5,93014,9281
7324	3,86474,83356,2965
	5,92933,9649
7325	3,86480,76290,2614
	5,92853,0238
7326	3,86486,69143,2852
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7327	3,86492,61915,3900
	5,92691,2079
7328	3,86498,54606,5979
	5,92610,3331
7329	3,86504,47216,9310
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7330	3,86510,39746,4113
	5,92448,6496
7331	3,86516,32195,0609
	5,92367,8409
7332	3,86522,24562,9018
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7333	3,86528,16849,9561
	5,92206,2897
7334	3,86534,09056,2458
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7335	3,86540,01181,7930
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7336	3,86545,93226,6197
	5,91964,1281
7337	3,86551,85190,7478
	5,91883,4515
7338	3,86557,77074,1993
	5,91802,7970
7339	3,86563,68876,9963
	5,91722,1644
7340	3,86569,60599,1608
	5,91641,5538
7341	3,86575,52240,7146
	5,91560,9652
7342	3,86581,43801,6798
	5,91480,3984
7343	3,86587,35282,0782
	5,91399,8537
7344	3,86593,26681,9319
	5,91319,3310
7345	3,86599,18001,2629
	5,91238,8300
7346	3,86605,09240,0929
	5,91158,3510
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	5,91077,8940
7348	3,86616,91476,3379
	5,90997,4587
7349	3,86622,82473,7966
	5,90917,0455
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	5,90836,6541
7351	3,86634,64227,4961
	5,90756,2845
7352	3,86640,54983,7806
	5,90675,9368
7353	3,86646,45659,7174
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	5,90435,0249
7356	3,86664,17205,6604
	5,90354,7646
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	5,90274,5262
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7359	3,86681,88029,2606
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7362	3,86699,58131,1065
	5,89873,6605
7363	3,86705,48004,7670
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7370	3,86746,74878,5905
	5,89233,4069
7371	3,86752,64111,9974
	5,89153,4729
7372	3,86758,53265,4703
	5,89073,5606
7373	3,86764,42339,0509
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7374	3,86770,31332,7009
	5,88913,8010
7375	3,86776,20246,5019
	5,88833,9537
7376	3,86782,09080,4556
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7377	3,86787,97834,5837
	5,88674,3241
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7379	3,86799,75103,4495
	5,88514,7809
7380	3,86805,63618,2304
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7381	3,86811,52053,2721
	5,88355,3242
7382	3,86817,40408,5963
	5,88275,6283
7383	3,86823,28684,2246
	5,88195,9539
7384	3,86829,16880,1785
	5,88116,3012
7385	3,86835,04996,4797
	5,88036,6699
7386	3,86840,93033,1496
	5,87957,0602
7387	3,86846,80990,2098
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7388	3,86852,68867,6820
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7389	3,86858,56665,5877
	5,87718,3606
7390	3,86864,44383,9483
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7391	3,86870,32022,7854
	5,87559,3351
7392	3,86876,19582,1205
	5,87479,8547
7393	3,86882,07061,9752
	5,87400,3957
7394	3,86887,94462,3709
	5,87320,9583
7395	3,86893,81783,3292
	5,87241,5422
7396	3,86899,69024,8714
	5,87162,1477
7397	3,86905,56187,0191
	5,87082,7747
7398	3,86911,43269,7938
	5,87003,4231
7399	3,86917,30273,2169
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7400	3,86923,17197,3098
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Num. absolu.	Logarithmi.	Num. absolu.	Logarithmi.	Num. absolu.	Logarithmi.
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7402	3,86934,90807,5910 5,86686,2311	7435	3,87128,09728,5798 5,84082,4189	7468	3,87320,43092,7704 5,81501,6168
7403	3,86940,77493,8221 5,86606,9866	7436	3,87133,93810,9987 5,84003,8762	7469	3,87326,24594,3872 5,81423,7667
7404	3,86946,64100,8087 5,86527,7635	7437	3,87139,77814,8749 5,83925,3547	7470	3,87332,06018,1540 5,81345,9375
7405	3,86952,50628,5722 5,86448,5620	7438	3,87145,61740,2296 5,83846,8543	7471	3,87337,87364,0915 5,81268,1290
7406	3,86958,37077,1342 5,86369,3817	7439	3,87151,45587,0839 5,83768,3749	7472	3,87343,68632,2205 5,81190,3413
7407	3,86964,23446,5159 5,86290,2229	7440	3,87157,29355,4588 5,83689,9167	7473	3,87349,49822,5618 5,81112,5745
7408	3,86970,09736,7388 5,86211,0854	7441	3,87163,13045,3755 5,83611,4797	7474	3,87355,30935,1363 5,81034,8284
7409	3,86975,95947,8242 5,86131,9691	7442	3,87168,96656,8552 5,83533,0636	7475	3,87361,11969,9647 5,80957,1033
7410	3,86981,82079,7933 5,86052,8744	7443	3,87174,80189,9188 5,83454,6685	7476	3,87366,92927,0680 5,80879,3989
7411	3,86987,68132,6677 5,85973,8009	7444	3,87180,63644,5873 5,83376,2946	7477	3,87372,73806,4669 5,80801,7152
7412	3,86993,54106,4686 5,85894,7489	7445	3,87186,47020,8819 5,83297,9419	7478	3,87378,54608,1821 5,80724,0523
7413	3,86999,40001,2175 5,85815,7180	7446	3,87192,30318,8238 5,83219,6100	7479	3,87384,35332,2344 5,80646,4103
7414	3,87005,25816,9355 5,85736,7086	7447	3,87198,13538,4338 5,83141,2991	7480	3,87390,15978,6446 5,80568,7889
7415	3,87011,11553,6441 5,85657,7203	7448	3,87203,96679,7329 5,83063,0094	7481	3,87395,96547,4335 5,80491,1884
7416	3,87016,97211,3644 5,85578,7535	7449	3,87209,79742,7423 5,82984,7406	7482	3,87401,77038,6219 5,80413,6085
7417	3,87022,82790,1179 5,85499,8080	7450	3,87215,62727,4829 5,82906,4929	7483	3,87407,57452,2304 5,80336,0493
7418	3,87028,68289,9259 5,85420,8837	7451	3,87221,45633,9758 5,82828,2662	7484	3,87413,37788,2797 5,80258,5110
7419	3,87034,53710,8096 5,85341,9807	7452	3,87227,28462,2420 5,82750,0605	7485	3,87419,18046,7907 5,80180,9934
7420	3,87040,39052,7903 5,85263,0989	7453	3,87233,11212,3025 5,82671,8757	7486	3,87424,98227,7841 5,80103,4963
7421	3,87046,24315,8892 5,85184,2385	7454	3,87238,93884,1782 5,82593,7120	7487	3,87430,78331,2804 5,80026,0201
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7424	3,87063,79632,1080 5,84947,7844	7457	3,87256,41430,9066 5,82359,3464	7490	3,87448,18176,9947 5,79793,7155
7425	3,87069,64579,8924 5,84869,0090	7458	3,87262,23790,2530 5,82281,2664	7491	3,87453,97970,7102 5,79716,3218
7426	3,87075,49448,9014 5,84790,2546	7459	3,87268,06071,5194 5,82203,2074	7492	3,87459,77687,0320 5,79638,9490
7427	3,87081,34239,1560 5,84711,5214	7460	3,87273,88274,7267 5,82125,1693	7493	3,87465,57325,9810 5,79561,5968
7428	3,87087,18950,6774 5,84632,8095	7461	3,87279,70399,8960 5,82047,1521	7494	3,87471,36887,5778 5,79484,2652
7429	3,87093,03583,4869 5,84554,1189	7462	3,87285,52447,0481 5,81969,1558	7495	3,87477,16371,8430 5,79406,9542
7430	3,87098,88137,6058 5,84475,4492	7463	3,87291,34416,2039 5,81891,1805	7496	3,87482,95778,7972 5,79329,6639
7431	3,87104,72613,0550 5,84396,8008	7464	3,87297,16307,3844 5,81813,2260	7497	3,87488,75108,4611 5,79252,3942
7432	3,87110,57009,8558 5,84318,1737	7465	3,87302,98120,6104 5,81735,2924	7498	3,87494,54360,8553 5,79175,1451
7433	3,87116,41328,0295 5,84239,5676	7466	3,87308,79855,9028 5,81657,3798	7499	3,87500,33536,0004 5,79097,9166
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7503	3,87523,49464,5017
	5,78789,2084
7504	3,87529,28253,7101
	5,78712,0828
7505	3,87535,06965,7929
	5,78634,9777
7506	3,87540,85600,7706
	5,78557,8932
7507	3,87546,64158,6638
	5,78480,8292
7508	3,87552,42639,4930
	5,78403,7858
7509	3,87558,21043,2788
	5,78326,7629
7510	3,87563,99370,0417
	5,78249,7604
7511	3,87569,77619,8021
	5,78172,7785
7512	3,87575,55792,5806
	5,78095,8170
7513	3,87581,33888,3976
	5,78018,8760
7514	3,87587,11907,2736
	5,77941,9556
7515	3,87592,89849,2292
	5,77865,0556
7516	3,87598,67714,2848
	5,77788,1761
7517	3,87604,45502,4609
	5,77711,3170
7518	3,87610,23213,7779
	5,77634,4784
7519	3,87616,00848,2563
	5,77557,6601
7520	3,87621,78405,9164
	5,77480,8623
7521	3,87627,55886,7787
	5,77404,0850
7522	3,87633,33290,8637
	5,77327,3281
7523	3,87639,10618,1918
	5,77250,5916
7524	3,87644,87868,7834
	5,77173,8754
7525	3,87650,65042,6588
	5,77097,1797
7526	3,87656,42139,8385
	5,77020,5042
7527	3,87662,19160,3427
	5,76943,8493
7528	3,87667,96104,1920
	5,76867,2147
7529	3,87673,72971,4067
	5,76790,6004
7530	3,87679,49762,0071
	5,76714,0064
7531	3,87685,26476,0135
	5,76637,4328
7532	3,87691,03113,4463
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7533	3,87696,79674,3258
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7537	3,87719,85152,7179
	5,76178,4179
7538	3,87725,61331,1358
	5,76101,9866
7539	3,87731,37433,1224
	5,76025,5753
7540	3,87737,13458,6977
	5,75949,1844
7541	3,87742,89407,8821
	5,75872,8138
7542	3,87748,65280,6959
	5,75796,4634
7543	3,87754,41077,1593
	5,75720,1333
7544	3,87760,16797,2926
	5,75643,8234
7545	3,87765,92441,1160
	5,75567,5337
7546	3,87771,68008,6497
	5,75491,2642
7547	3,87777,43499,9139
	5,75415,0150
7548	3,87783,18914,9289
	5,75338,7858
7549	3,87788,94253,7147
	5,75262,5771
7550	3,87794,69516,2918
	5,75186,3884
7551	3,87800,44702,6802
	5,75110,2199
7552	3,87806,19812,9001
	5,75034,0715
7553	3,87811,94846,9716
	5,74957,9434
7554	3,87817,69804,9150
	5,74881,8354
7555	3,87823,44686,7504
	5,74805,7475
7556	3,87829,19492,4979
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7559	3,87846,43453,5146
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	5,74273,6959
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7564	3,87875,15201,7301
	5,74121,8620
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7567	3,87892,37339,6758
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7569	3,87903,85052,3725
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7570	3,87909,58795,0008
	5,73666,8417
7571	3,87915,32461,8425
	5,73591,0751
7572	3,87921,06052,9176
	5,73515,3285
7573	3,87926,79568,2461
	5,73439,6020
7574	3,87932,53007,8481
	5,73363,8953
7575	3,87938,26371,7434
	5,73288,2088
7576	3,87943,99659,9522
	5,73212,5421
7577	3,87949,72872,4943
	5,73136,8954
7578	3,87955,46009,3897
	5,73061,2688
7579	3,87961,19070,6585
	5,72985,6621
7580	3,87966,92056,3206
	5,72910,0752
7581	3,87972,64966,3958
	5,72834,5084
7582	3,87978,37800,9042
	5,72758,9614
7583	3,87984,10559,8656
	5,72683,4345
7584	3,87989,83243,3001
	5,72607,9274
7585	3,87995,55851,2275
	5,72532,4402
7586	3,88001,28383,6677
	5,72456,9730
7587	3,88007,00840,6407
	5,72381,5256
7588	3,88012,73222,1663
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	5,72230,6905
7590	3,88024,17758,9549
	5,72155,3027
7591	3,88029,89914,2576
	5,72079,9348
7592	3,88035,61994,1924
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	5,71929,2586
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7595	3,88052,77781,9881
	5,71778,6618
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7604	3,88104,21081,9340
	5,71101,9561
7605	3,88109,92183,8901
	5,71026,8655
7606	3,88115,63210,7556
	5,70951,7945
7607	3,88121,34162,5501
	5,70876,7434
7608	3,88127,65039,2935
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7610	3,88138,46567,7057
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7611	3,88144,17219,4140
	5,70576,7359
7612	3,88149,87796,1499
	5,70501,7832
7613	3,88155,58297,9331
	5,70426,8503
7614	3,88161,28724,7834
	5,70351,9371
7615	3,88166,99076,7205
	5,70277,0436
7616	3,88172,69353,7641
	7,70202,1697
7617	3,88178,39555,9338
	5,70127,3155
7618	3,88184,09683,2493
	5,70052,4809
7619	3,88189,79735,7302
	5,69977,6658
7620	3,88195,49713,3960
	5,69902,8705
7621	3,88201,19616,2665
	5,69828,0950
7622	3,88206,89444,3615
	5,69753,3389
7623	3,88212,59197,7004
	5,69678,6024
7624	3,88218,28876,3028
	5,69603,8855
7625	3,88223,98480,1883
	5,69529,1882
7626	3,88229,68009,3765
	5,69454,5106
7627	3,88235,37463,8871
	5,69379,8526
7628	3,88241,06843,7397
	5,69305,2140
7629	3,88246,76148,9537
	5,69230,5951
7630	3,88252,45379,5488
	5,69155,9957
7631	3,88258,14535,5445
	5,69081,4158
7632	3,88263,83616,9603
	5,69006,8556
7633	3,88269,52623,8159
	5,68932,3149
7634	3,88275,21556,1308
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7635	3,88280,90413,9244
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7636	3,88286,59197,2163
	5,68708,8097
7637	3,88292,27906,0260
	5,68634,3470
7638	3,88297,96540,3730
	5,68559,9037
7639	3,88303,65090,2767
	5,68485,4801
7640	3,88309,33585,7569
	5,68411,0759
7641	3,88315,01996,8328
	5,68336,6912
7642	3,88320,70333,5240
	6,68262,3259
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	5,68187,9800
7644	3,88332,06783,8299
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7646	3,88343,42936,8302
	5,67965,0592
7647	3,88349,10901,8894
	5,67890,7912
7648	3,88354,78792,6806
	5,67816,5424
7649	3,88360,46609,2230
	5,67742,3132
7650	3,88366,14351,5362
	5,67668,1035
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	5,67593,9130
7652	3,88377,49613,5527
	6,67519,7419
7653	3,88383,17133,2946
	5,67445,5903
7654	3,88388,84578,8849
	5,67371,4580
7655	3,88394,51950,3429
	5,67297,3451
7656	3,88400,19247,6880
	5,67223,2515
7657	3,88405,86470,9395
	5,67149,1773
7658	3,88411,53620,1168
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	5,66853,0738
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	5,66779,0962
7663	3,88439,88255,5668
	5,66705,1381
7664	3,88445,54960,7049
	5,66631,1991
7665	3,88451,21591,9040
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7666	3,88456,88149,1834
	5,66483,3790
7667	3,88462,54632,5624
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7669	3,88473,87377,6963
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7670	3,88479,53639,4898
	5,66187,9701
7671	3,88485,19827,4599
	5,66114,1661
7672	3,88490,85941,6260
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7673	3,88496,51982,0072
	5,65966,6157
7674	3,88502,17948,6229
	5,65892,8693
7675	3,88507,83841,4922
	5,65819,1421
7676	3,88513,49660,6343
	5,65745,4342
7677	3,88519,15406,0685
	5,65671,7454
7678	3,88524,81077,8139
	5,65598,0758
7679	3,88530,46775,8897
	5,65524,4254
7680	3,88536,12200,3151
	5,65450,7942
7681	3,88541,77651,1093
	5,65377,1823
7682	3,88547,43028,2916
	5,65303,5894
7683	3,88553,08331,8810
	5,65230,0156
7684	3,88558,73561,8966
	5,65156,4610
7685	3,88564,38718,3576
	5,65082,9256
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	5,65009,4094
7687	3,88575,68810,6926
	5,64935,9122
7688	3,88581,33746,6048
	5,64862,4343
7689	3,88586,98609,0391
	5,64788,9753
7690	3,88592,63398,0143
	5,64715,5354
7691	3,88598,28113,5497
	5,64642,1147
7692	3,88603,92755,6644
	5,64568,7130
7693	3,88609,57324,3774
	5,64495,3304
7694	3,88615,20819,7078
	5,64421,9670
7695	3,88620,85241,6748
	5,64348,6227
7696	3,88626,49590,2975
	5,64275,2972
7697	3,88632,13865,5947
	5,64201,9909
7698	3,88637,78067,5856
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7703	3,88665, 98978, 6120 5, 63762,5527
7704	3,88671, 62741,1647 5, 63689,3796
7705	3,88677, 26430,5443 5, 63616,2255
7706	3,88682, 90046,7698 5, 63543,0903
7707	3,88688, 53589,8601 5, 63469,9741
7708	3,88694, 17059,8342 5, 63396,8508
7709	3,88699, 80451,7110 5, 633 [illegible]
7710	3,88705, 4[illegible] 5, 63250,7393
7711	3,88711, 07031,2489 5, 63177,0988
7712	3,88716, 70208,9477 5, 63104,6775
7713	3,88722, 33313,6252 5, 63031,6750
7714	3,88727, 96345,3002 5, 62958,6914
7715	3,88733, 59303,9916 5, 62885,7268
7716	3,88739, 22189,7184 5, 62812,7811
7717	3,88744, 85002,4995 5, 62739,8543
7718	3,88750, 47742,3538 5, 62666,9463
7719	3,88756, 10409,3001 5, 62594,0572
7720	3,88761, 73003,3573 5, 62521,1871
7721	3,88767, 35524,5444 5, 62448,3358
7722	3,88772, 97972,8802 5, 62375,5034
7723	3,88778, 60348,3836 5, 62302,6899
7724	3,88784, 22651,0735 5, 62229,8952
7725	3,88789, 84880,9687 5, 62157,1192
7726	3,88795, 47038,0879 5, 62084,3623
7727	3,88801, 09122,4502 5, 62011,6241
7728	3,88806, 71134,0743 5, 61938,9048
7729	3,88812, 33072,9791 5, 61866,2042
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7731	3,88823, 56732,7057 5, 61720,8594
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7738	3,88862, 87253,8523 5, 61212,7447
7739	3,88868, 48466, 5970 5, 61140,2319
7740	3,88874, 09606,8289 5, 61067,7379
7741	3,88879, 70674,5668 5, 60995,2626
7742	3,88885, 31669,8394 5, 60922,8059
7743	3,88890, 92592,6353 5, 60850,3680
7744	3,88896, 53443,0033 5, 60777,9489
7745	3,88902, 14220, 9522 5, [illegible] ,5484
7746	3,88907, 74[illegible],5006 5, 60633,1667
7747	3,88913, 35559,6673 5, 60560,8035
7748	3,88918, 96120,470[illegible] 5, 60488,4590
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7913	3,89834,11657,2751
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7916	3,89850,57855,3435
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	5,42088,8504
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	5,41953,5564
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	5,40402,5166
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	5,36464,0634
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	5,36397,8045
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	5,36331,5621
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8115	3,90928,85241,6224
	5,35141,9906
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	5,35010,1417
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8143	3,91078,44347,9283
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	5,32125,8133
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	5,30760,1374
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	5,30695,2801
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	5,29336,9278
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8206	3,91413,15126,3090
	5,29207,9235
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	5,29143,4449
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	5,27024,4312
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8272	3,91761,05257,4987
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8273	3,91766,30243,2738
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8279	3,91797,78825,9290
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8285	3,91829,25127,5537
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8294	3,91876,40310,2801
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8305	3,91933,96367,8741
	5,22899,8645
8306	3,91939,19267,7386
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8307	3,91944,42104,6523
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8308	3,91949,64878,6306
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8309	3,91954,87589,6885
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8310	3,91960,10237,8411
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	5,22522,3876
8312	3,91970,55345,4912
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8313	3,91975,77805,0189
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8315	3,91986,22535,5553
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8319	3,92007,11242,9752
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	5,20830,4640
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	5,20393,6043
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9106	3,95932,76459,7217
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9107	3,95937,53365,7584
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9115	3,95975,66729,9099
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9117	3,95985,19547,9960
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9118	3,95989,95878,6594
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9238	3,96557,79579,1053
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	4,70041,1087
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	4,68115,8527
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9305	3,96871,63774,6677 4,66707,3047
9306	3,96876,30481,9724 4,66657,1561
9307	3,96880,97139,1285 4,66607,0184
9308	3,96885,63746,1469 4,66556,8913
9309	3,96890,30303,0382 4,66506,7751
9310	3,96894,96809,8134 4,66456,6697
9311	3,96899,63266,4831 4,66406,5750
9312	3,96904,29673,0581 4,66356,4911
9313	3,96908,96029,5492 4,66306,4178
9314	3,96913,62335,9670 4,66256,3555
9315	3,96918,28592,3225 4,66206,3039
9316	3,96922,94798,6264 4,66156,2629
9317	3,96927,60954,8893 4,66106,2327
9318	3,96932,27061,1220 4,66056,2133
9319	3,96936,93117,3353 4,66006,2046
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9323	3,96955,56842,2083 4,65806,2770
9324	3,96960,22648,4853 4,65756,3220
9325	3,96964,88404,8073 4,65706,3775
9326	3,96969,54111,1848 4,65656,4438
9327	3,96974,19767,6286 4,65606,5209
9328	3,96978,85374,1495 4,65556,6086
9329	3,96983,50930,7581 4,65506,7070
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9331	3,96992,81894,2811 4,65406,9360
9332	3,96997,47301,2171 4,65357,0666
9333	3,97002,12658,2837 4,65307,2077
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9372	3,97183,22799,2492 4,63371,0125
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9395	3,97289,67844,3654 4,62236,6902
9396	3,97294,30081,0556 4,62187,4979
9397	3,97298,92268,5535 4,62138,3159
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9404	3,97331,26204,5289 4,61794,3350
9405	3,97335,87998,8639 4,61745,2366
9406	3,97340,49744,1005 4,61696,1487
9407	3,97345,11440,2492 4,61647,0713
9408	3,97349,73087,3205 4,61598,0043
9409	3,97354,34685,3248 4,61548,9478
9410	3,97358,96234,2726 4,61499,9015
9411	3,97363,57734,1741 4,61450,8657
9412	3,97368,19185,0398 4,61401,8404
9413	3,97372,80586,8802 4,61352,8256
9414	3,97377,41939,7058 4,61303,8211
9415	3,97382,03243,5269 4,61254,8269
9416	3,97386,64498,3538 4,61205,8432
9417	3,97391,25704,1970 4,61156,8700
9418	3,97395,86861,0670 4,61107,9071
9419	3,97400,47968,9741 4,61058,9547
9420	3,97405,09027,9288 4,61010,0125
9421	3,97409,70037,9413 4,60961,0809
9422	3,97414,30999,0222 4,60912,1595
9423	3,97418,91911,1817 4,60863,2485
9424	3,97423,52774,4302 4,60814,3481
9425	3,97428,13588,7783 4,60765,4579
9426	3,97432,74354,2362 4,60716,5781
9427	3,97437,35070,8143 4,60667,7085
9428	3,97441,95738,5228 4,60618,8496
9429	3,97446,56357,3724 4,60570,0009
9430	3,97451,16927,3733 4,60521,1625
9431	3,97455,77448,5358 4,60472,3345
9432	3,97460,37920,8703 4,60423,5169
9433	3,97464,98344,3872 4,60374,7096
9434	3,97469,58719,0968 4,60325,9127

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9438	3,97487,99730,0693 4,60130,8283
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9440	3,97497,19942,9807 4,60033,3481
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9442	3,97506,39960,9524 4,59935,9092
9443	3,97510,99896,8616 4,59887,2053
9444	3,97515,59784,0669 4,59838,5116
9445	3,97520,19622,5785 4,59789,8283
9446	3,97524,79412,4068 4,59741,1553
9447	3,97529,39153,5621 4,59692,4925
9448	3,97533,98846,0546 4,59643,8401
9449	3,97538,58489,8947 4,59595,1979
9450	3,97543,18085,0926 4,59546,5661
9451	3,97547,77631,6587 4,59497,9446
9452	3,97552,37129,6033 4,59449,3333
9453	3,97556,96578,9366 4,59400,7324
9454	3,97561,55979,6690 4,59352,1416
9455	3,97566,15331,8106 4,59303,5612
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9457	3,97575,33890,3628 4,59206,4312
9458	3,97579,93096,7940 4,59157,8817
9459	3,97584,52254,6757 4,59109,3422
9460	3,97589,11364,0179 4,59060,8132
9461	3,97593,70424,8311 4,59012,2944
9462	3,97598,29437,1255 4,58963,7858
9463	3,97602,88400,9113 4,58915,2875
9464	3,97607,47316,1988 4,58866,7993
9465	3,97612,06182,9981 4,58818,3216
9466	3,97616,65001,3197 4,58769,8540
9467	3,97621,23771,1737 4,58721,3967

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9469	3,97630,41165,5200 4,58624,5128
9470	3,97634,99790,0323 4,58576,0860
9471	3,97639,58366,1183 4,58527,6696
9472	3,97644,16893,7884 4,58479,2634
9473	3,97648,75373,0518 4,58430,8675
9474	3,97653,33803,9193 4,58382,4818
9475	3,97657,92186,4011 4,58334,1061
9476	3,97662,50521,5072 4,58285,7409
9477	3,97667,08806,2481 4,58237,3858
9478	3,97671,67043,6339 4,58189,0407
9479	3,97676,25232,6746 4,58140,7060
9480	3,97680,83373,3806 4,58092,3816
9481	3,97685,41465,7622 4,58044,0673
9482	3,97689,99509,8295 4,57995,7630
9483	3,97694,57505,5925 4,57947,4690
9484	3,97699,15453,0615 4,57899,1853
9485	3,97703,73352,2468 4,57850,9117
9486	3,97708,31203,1585 4,57802,6483
9487	3,97712,89005,8068 4,57754,3950
9488	3,97717,46760,2018 4,57706,1520
9489	3,97722,04466,3538 4,57657,9191
9490	3,97726,62124,2729 4,57609,6963
9491	3,97731,19733,9692 4,57561,4838
9492	3,97735,77295,4530 4,57513,2815
9493	3,97740,34808,7345 4,57465,0890
9494	3,97744,92273,8235 4,57416,9068
9495	3,97749,49690,7303 4,57368,7350
9496	3,97754,07059,4653 4,57320,5731
9497	3,97758,64380,0384 4,57272,4215
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	4,56983,7242
9504	3,97790,64276,3712
	4,56935,6434
9505	3,97795,21212,0146
	4,56887,5728
9506	3,97799,78099,5874
	4,56839,5123
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9508	3,97808,91730,5614
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9511	3,97822,61816,7453
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9512	3,97827,18416,1064
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9513	3,97831,74967,4676
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9514	3,97836,31470,8389
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9515	3,97840,87926,2304
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9518	3,97854,57004,6273
	4,56263,5734
9519	3,97859,13268,2007
	4,56215,6440
9520	3,97863,69483,8447
	4,56167,7247
9521	3,97868,25651,5694
	4,56119,8155
9522	3,97872,81771,3849
	4,56071,9163
9523	3,97877,37843,3012
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9524	3,97881,93867,3284
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9525	3,97886,49843,4766
	4,55928,2792
9526	3,97891,05771,7558
	4,55880,4202
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9528	3,97900,17484,7473
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9530	3,97909,29006,3833
	4,55689,0849
9531	3,97913,84695,4682
	4,55641,2760
9532	3,97918,40336,7442
	4,55593,4774
9533	3,97922,95930,2216
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9534	3,97927,51475,9103
	4,55497,9100

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9535	3,97932,06973,8203
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9536	3,97936,62423,9616
	4,55402,3828
9537	3,97941,17826,3444
	4,55354,6342
9538	3,97945,73180,9786
	4,55306,8955
9539	3,97950,28487,8741
	4,55259,1669
9540	3,97954,83747,0410
	4,55211,4483
9541	3,97959,38958,4893
	4,55163,7398
9542	3,97963,94122,2291
	4,55116,0411
9543	3,97968,49238,2702
	4,55068,3526
9544	3,97973,04306,6228
	4,55020,6740
9545	3,97977,59327,2968
	4,54973,0055
9546	3,97982,14300,3023
	4,54925,3468
9547	3,97986,69225,6491
	4,54877,6981
9548	3,97991,24103,3472
	4,54830,0594
9549	3,97995,78933,4066
	4,54782,4308
9550	3,98000,33715,8374
	4,54734,8121
9551	3,98004,88450,6495
	4,54687,2034
9552	3,98009,43137,8529
	4,54639,6047
9553	3,98013,97777,4576
	4,54592,0158
9554	3,98018,52369,4734
	4,54544,4369
9555	3,98023,06913,9103
	4,54496,8681
9556	3,98027,61410,7784
	4,54449,3092
9557	3,98032,15860,0876
	4,54401,7602
9558	3,98036,70261,8478
	4,54354,2212
9559	3,98041,24616,0690
	4,54306,6921
9560	3,98045,78922,7611
	4,54259,1729
9561	3,98050,33181,9340
	4,54211,6638
9562	3,98054,87393,5978
	4,54164,1645
9563	3,98059,41557,7623
	4,54116,6751
9564	3,98063,95674,4374
	4,54069,1958
9565	3,98068,49743,6332
	4,54021,7262
9566	3,98073,03765,3594
	4,53974,2667
9567	3,98077,57739,6261
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9568	3,98082,11666,4434
	4,53879,3775
9569	3,98086,65545,8209
	4,53831,9475
9570	3,98091,19377,7684
	4,53784,5277
9571	3,98095,73162,2961
	4,53737,1178
9572	3,98100,26899,4139
	4,53689,7177
9573	3,98104,80589,1316
	4,53642,3276
9574	3,98109,34231,4592
	4,53594,9473
9575	3,98113,87826,4065
	4,53547,5769
9576	3,98118,41373,9834
	4,53500,2165
9577	3,98122,94874,1999
	4,53452,8659
9578	3,98127,48327,0658
	4,53405,5251
9579	3,98132,01732,5909
	4,53358,1946
9580	3,98136,55090,7855
	4,53310,8734
9581	3,98141,08401,6589
	4,53263,5624
9582	3,98145,61665,2213
	4,53216,2612
9583	3,98150,14881,4825
	4,53168,9698
9584	3,98154,68050,4523
	4,53121,6885
9585	3,98159,21172,1408
	4,53074,4168
9586	3,98163,74246,5576
	4,53027,1552
9587	3,98168,27273,7128
	4,52979,9033
9588	3,98172,80253,6161
	4,52932,6614
9589	3,98177,33186,2775
	4,52885,4291
9590	3,98181,86071,7066
	4,52838,2069
9591	3,98186,38909,9135
	4,52790,9944
9592	3,98190,91700,9079
	4,52743,7918
9593	3,98195,44444,6997
	4,52696,5991
9594	3,98199,97141,2988
	4,52649,4161
9595	3,98204,49790,7149
	4,52602,2430
9596	3,98209,02392,9579
	4,52555,0798
9597	3,98213,54948,0377
	4,52507,9263
9598	3,98218,07455,9640
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9599	3,98222,59916,7468
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9603	3,98240,69288,6380
	4,52225,2119
9604	3,98245,21513,8499
	4,52178,1272
9605	3,98249,73691,9771
	4,52131,0522
9606	3,98254,25823,0293
	4,52083,9874
9607	3,98258,77907,0167
	4,52036,9317
9608	3,98263,29943,9484
	4,51989,8863
9609	3,98267,81933,8347
	4,51942,8507
9610	3,98272,33876,6854
	4,51895,8247
9611	3,98276,85772,5101
	4,51848,8085
9612	3,98281,37621,3186
	4,51801,8021
9613	3,98285,89423,1207
	4,51754,8056
9614	3,98290,41177,9263
	4,51707,8187
9615	3,98294,92885,7450
	4,51660,8416
9616	3,98299,44546,5866
	4,51613,8744
9617	3,98303,96160,4610
	4,51566,9169
9618	3,98308,47727,3779
	4,51519,9691
9619	3,98312,99247,3470
	4,51473,0311
9620	3,98317,50720,3781
	4,51426,1030
9621	3,98322,02146,4811
	4,51379,1844
9622	3,98326,53525,6655
	4,51332,2757
9623	3,98331,04857,9412
	4,51285,3767
9624	3,98335,56143,3179
	4,51238,4875
9625	3,98340,07381,8054
	4,51191,6080
9626	3,98344,58573,4134
	4,51144,7382
9627	3,98349,09718,1516
	4,51097,8783
9628	3,98353,60816,0299
	4,51051,0280
9629	3,98358,11867,0579
	4,51004,1874
9630	3,98362,62871,2453
	4,50957,3566
9631	3,98367,13828,6019
	4,50910,5356
9632	3,98371,64739,1375
	4,50863,7242
9633	3,98376,15602,8617
	4,50816,9225
9634	3,98380,66419,7842
	4,50770,1306
9635	3,98385,17189,9148
	4,50723,3483
9636	3,98389,67913,2631
	4,50676,5758
9637	3,98394,18589,8389
	4,50629,8130
9638	3,98398,69219,6519
	4,50583,0599
9639	3,98403,19802,7118
	4,50536,3165
9640	3,98407,70339,0283
	4,50489,5828
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	4,50442,8587
9642	3,98416,71271,4698
	4,50396,1445
9643	3,98421,21667,6143
	4,50349,4398
9644	3,98425,72017,0541
	4,50302,7449
9645	3,98430,22319,7990
	4,50256,0597
9646	3,98434,72575,8587
	4,50209,3840
9647	3,98439,22785,2427
	4,50162,7180
9648	3,98443,72947,9607
	4,50116,0619
9649	3,98448,23064,0226
	4,50069,4153
9650	3,98452,73133,4379
	4,50022,7784
9651	3,98457,23156,2163
	4,49976,1512
9652	3,98461,73132,3675
	4,49929,5336
9653	3,98466,23061,9011
	4,49882,9256
9654	3,98470,72944,8267
	4,49836,3274
9655	3,98475,22781,1541
	4,49789,7388
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9807	3,99153,61753,0002 4,42818,7430
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9813	3,99180,17988,4465 4,42548,0025
9814	3,99184,60536,4490 4,42502,9112
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	4,34663,9466
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	4,34620,4476
9993	3,99969,58874,1083
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9994	3,99973,93451,0656
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	4,33795,6173
10012	4,00052,08409,3619
	4,33752,2919
10013	4,00056,42161,6538
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	4,33622,3676
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	4,33579,0768
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	4,33189,8481
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	4,33146,6437
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	4,33103,4478
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	4,32758,1907
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	4,32715,0723
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	4,32671,9624
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	4,31040,1293
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10105	4,00453,63178,5133 4,29760,5089
10106	4,00457,92939,0222 4,29717,9857
10107	4,00462,22657,0079 4,29675,4710
10108	4,00466,52332,4789 4,29632,9646
10109	4,00470,81965,4435 4,29590,4666
10110	4,00475,11555,9101 4,29547,9771
10111	4,00479,41103,8872 4,29505,4960
10112	4,00483,70609,3832 4,29463,0232
10113	4,00488,00072,4064 4,29420,5589
10114	4,00492,29492,9653 4,29378,1030
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10116	4,00500,88206,7237 4,29293,2163
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10119	4,00513,75959,0886 4,29165,9492
10120	4,00518,05125,0378 4,29123,5435
10121	4,00522,34248,5813 4,29081,1463
10122	4,00526,63329,7276 4,29038,7575
10123	4,00530,92368,4851 4,28996,3770
10124	4,00535,21364,8621 4,28954,0049
10125	4,00539,50318,8670 4,28911,6412
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10139	4,00599,51230,5469 4,28319,4263
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10169	4,00727,82473,3425 4,27055,8850
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10215	4,00923, 83709, 6847
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10216	4,00928, 08842, 5536
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10217	4,00932, 33933, 8102
	4, 25049, 6523
10218	4,00936, 58983, 4625
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10219	4,00940, 83991, 5187
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	4, 21174, 8846
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	4, 21134, 0434
10313	4,01338, 50177, 4970
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10314	4,01342, 71270, 7071
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10317	4,01355, 34305, 4169
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10318	4,01359, 55235, 3730
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10319	4,01363, 76124, 5354
	4, 20848, 3766
10320	4,01367, 96972, 9120
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	4,08037,2831
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	4,07960,6240
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	4,07922,3052
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10648	4,02726,80424,6662
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	4,07807,3921
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	4,07730,8194
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	4,07692,5438
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	4,07654,2753
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	4,07463,0409
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	4,07424,8156
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	4,07386,5974
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	4,07348,3864
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	4,07310,1826
10663	4,02787,94092,0720
	4,07271,9860
10664	4,02792,01364,0580
	4,07233,7965
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	4,07157,4389
10667	4,02804,22950,9075
	4,07119,2709
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	4,07119,2709
10668	4,02808,30070,1784
	4,07081,1100
10669	4,02812,37151,2884
	4,07042,9563
10670	4,02816,44194,2447
	4,07004,8097
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	4,06966,6703
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	4,06928,5380
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	4,06890,4129
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	4,06814,1841
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	4,06776,0804
10677	4,02844,92427,2351
	4,06737,9838
10678	4,02848,99165,2189
	4,06699,8944
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	4,06661,8121
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	4,06623,7369
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	4,06585,6689
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	4,06547,6080
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	4,06509,5542
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	4,06395,4356
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	4,06357,4102
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	4,06319,3921
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	4,06281,3810
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	4,06243,3770
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	4,06205,3802
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	4,06167,3904
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	4,06129,4078
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	4,06091,4323
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	4,06053,4638
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	4,06015,5025
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	4,05977,5482
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	4,05712,0671
10705	4,02958,66716,3045
	4,05674,1696
10706	4,02962,72390,4741
	4,05636,2791
10707	4,02966,78026,7532
	4,05598,3957
10708	4,02970,83625,1489
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	4,05522,6502
10710	4,02978,94708,3185
	4,05484,7880
10711	4,02983,00193,1065
	4,05446,9329
10712	4,02987,05640,0394
	4,05409,0849
10713	4,02991,11049,1243
	4,05371,2440
10714	4,02995,16420,3683
	4,05333,4101
10715	4,02999,21753,7784
	4,05295,5832
10716	4,03003,27049,3616
	4,05257,7635
10717	4,03007,32307,1251
	4,05219,9507
10718	4,03011,37527,0758
	4,05182,1451
10719	4,03015,42709,2209
	4,05144,3465
10720	4,03019,47853,5674
	4,05106,5549
10721	4,03023,52960,1224
	4,05068,7704
10722	4,03027,58028,8928
	4,05030,9930
10723	4,03031,63059,8858
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10724	4,03035,68053,1084
	4,04955,4502
10725	4,03039,73008,5678
	4,04917,7029
10726	4,03043,77926,2705
	4,04879,9536
10727	4,03047,82806,2241
	4,04842,2114
10728	4,03051,87648,4355
	4,04804,4761
10729	4,03055,92452,9116
	4,04766,7480
10730	4,03059,97219,6596
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10731	4,03064,01948,6864
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10732	4,03068,06639,9991
	4,04653,6056
10733	4,03072,11293,6047
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10734	4,03076,15909,5102
	4,04578,2125
10735	4,03080,20487,7227
	4,04540,5265
10736	4,03084,25028,2492
	4,04502,8475
10737	4,03088,29531,0907
	4,04465,1755
10738	4,03092,33996,2722
	4,04427,5105
10739	4,03096,38423,7827
	4,04389,8526
10740	4,03100,42813,6353
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10741	4,03104,47165,8370
	4,04314,5578
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	4,04276,9209
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	4,04164,0521
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	4,04126,4432
10747	4,03128,72488,7699
	4,04088,8413
10748	4,03132,76577,6112
	4,04051,2465
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	4,04013,6585
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	4,03900,9367
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	4,03638,1637
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	4,03525,6513
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	4,03375,7224
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10768	4,03213,50468,7991
	4,03300,8146
10769	4,03217,53769,6137
	4,03263,3662
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	4,03225,9247
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	4,03113,6420
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	4,03038,8216
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	4,03001,4218
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	4,02851,8920
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	4,02739,8175
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	4,02627,8053
10787	4,03290,06787,3268
	4,02590,4818
10788	4,03294,09377,8086
	4,02553,1652
10789	4,03298,11930,9738
	4,02515,8554
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	4,02478,5526
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	4,02403,9678
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	4,02366,6857
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	4,02254,8809
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	4,02217,6265
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10804	4,03358,45755,1541
	4,01957,0385
10805	4,03362,47712,1926
	4,01919,8392
10806	4,03366,49632,0318
	4,01882,6468
10807	4,03370,51514,6786
	4,01845,4612
10808	4,03374,53360,1398
	4,01808,2825
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	4,01771,1108
10810	4,03382,56939,5331
	4,01733,9459
10811	4,03386,58673,4790
	4,01696,7879
10812	4,03390,60370,2669
	4,01659,6367
10813	4,03394,62029,9036
	4,01622,4925
10814	4,03398,63652,3961
	4,01585,3550
10815	4,03402,65237,7511
	4,01548,2245
10816	4,03406,66785,9756
	4,01511,1008
10817	4,03410,68297,0764
	4,01473,9840
10818	4,03414,69771,0604
	4,01436,8741
10819	4,03418,71207,9345
	4,01399,7710
10820	4,03422,72607,7055
	4,01362,6748
10821	4,03426,73970,3803
	4,01325,5854
10822	4,03430,75295,9657
	4,01288,5029
10823	4,03434,76584,4686
	4,01251,4272
10824	4,03438,77835,8958
	4,01214,3583
10825	4,03442,79050,2541
	4,01177,2964
10826	4,03446,80227,5505
	4,01140,2413
10827	4,03450,81367,7918
	4,01103,1930
10828	4,03454,82470,9848
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	4,01029,1169
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	4,00992,0892
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	4,00955,0683
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	4,00918,0542
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	4,00881,0470
10834	4,03478,88312,5120
	4,00844,0465
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	4,00807,0529
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	4,00770,0662
10837	4,03490,90733,6776
	4,00733,0862
10838	4,03494,91466,7638
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	4,00659,1468
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	4,00548,2889
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	4,00511,3499
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	4,00437,4922
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10847	4,03530,96401,5680
	4,00363,6619
10848	4,03534,96765,2299
	4,00326,7569
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	4,00216,0828
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	4,00105,4698
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10860	4,03582,98252,5283
	3,99884,4272
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	3,99810,8007
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	3,99700,4116
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10867	4,03610,96670,6059
	3,99626,8527
10868	4,03614,96297,4586
	3,99590,0835
10869	4,03618,95887,5421
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10870	4,03622,95440,8630
	3,99516,5652
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	3,99479,8162
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	3,99443,0740
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	3,99406,3385
10874	4,03638,93286,6569
	3,99369,6098
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	3,99332,8879
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	3,99296,1727
10877	4,03650,91285,3273
	3,99259,4642
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	3,99222,7625
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10880	4,03662,88953,6216
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	3,99112,6979
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	3,99076,0232
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	3,99039,3552
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	3,99002,6939
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	3,98966,0394
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	3,98929,3916
10887	4,03690,82229,2022
	3,98892,7506
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	3,98856,1163
10889	4,03698,79978,0691
	3,98819,4887
10890	4,03702,78797,5578
	3,98782,8678
10891	4,03706,77580,4256
	3,98746,2537
10892	4,03710,76326,6793
	3,98709,6463
10893	4,03714,75036,3256
	3,98673,0455
10894	4,03718,73709,3711
	3,98636,4516
10895	4,03722,72345,8227
	3,98599,8643
10896	4,03726,70945,6870
	3,98563,2838
10897	4,03730,69508,9708
	3,98526,7100
10898	4,03734,68035,6808
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10899	4,03738,66525,8237
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10900	4,03742,64979,4062
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	3,98307,4079
10904	4,03758,58428,2662
	3,98270,8810
10905	4,03762,56699,1472
	3,98234,3608
10906	4,03766,54933,5080
	3,98197,8473
10907	4,03770,53131,3553
	3,98161,3406
10908	4,03774,51292,6959
	3,98124,8405
10909	4,03778,49417,5364
	3,98088,3470
10910	4,03782,47505,8834
	3,98051,8603
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	3,98015,3803
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	3,97978,9070
10913	4,03794,41552,0310
	3,97942,4403
10914	4,03798,39494,4713
	3,97905,9803
10915	4,03802,37400,4516
	3,97869,5270
10916	4,03806,35269,9786
	3,97833,0804
10917	4,03810,33103,0590
	3,97796,6404
10918	4,03814,30899,6994
	3,97760,2072
10919	4,03818,28659,9066
	3,97723,7806
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	3,97687,3607
10921	4,03826,24071,0479
	3,97650,9474
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	3,97614,5408
10923	4,03834,19336,5361
	3,97578,1409
10924	4,03838,16914,6770
	3,97541,7476
10925	4,03842,14456,4246
	3,97505,3611
10926	4,03846,11961,7857
	3,97468,9811
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	3,97432,6078
10928	4,03854,06863,3746
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10929	4,03858,04259,6158
	3,97359,8813
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	3,97323,5279
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	3,97287,1813
10932	4,03869,96230,2063
	3,97250,8412
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	3,97214,5079
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	3,97178,1812
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	3,97141,8611
10936	4,03885,85015,5977
	3,97105,5477
10937	4,03889,82121,1454
	3,97069,2409
10938	4,03893,79190,3863
	3,97032,9407
10939	4,03897,76223,3270
	3,96996,6472
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	3,96960,3603
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	3,96815,2791
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	3,96742,7782
10947	4,03929,51180,8432
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	3,96634,0766
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	3,96489,2338
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	3,96453,0395
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	3,96416,8520
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10958	4,03973,12960,9869
	3,96308,3289
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10978	4,04052,32264,4560
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10982	4,04068,14393,7335
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	3,95262,3274
10988	4,04091,86507,4853
	3,95226,3568
10989	4,04095,81733,8421
	3,95190,3928
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	3,95154,4354
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	3,95118,4845
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	3,95082,5401
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	3,94974,7462
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	3,93436,1391
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	3,93400,5002
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	3,93364,8677
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	3,93293,6221
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	3,91062,5206
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	3,91027,3103
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	3,90921,7176
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	3,90886,5328
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	3,90851,3542
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	3,90816,1820
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	3,90781,0160
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	3,90745,8565
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	3,90675,5563
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	3,90640,4157
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	3,90464,8076
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	3,87918,7907
11196	4,04906,28897,9412
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	3,87849,5041
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11204	4,04937,31001,5153
	3,87607,1955
11205	4,04941,18608,7108
	3,87572,6047
11206	4,04945,06181,3155
	3,87538,0201
11207	4,04948,93719,3356
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11209	4,04956,68691,6465
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	3,87399,7432
11211	4,04964,43525,6929
	3,87365,1895
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11213	4,04972,18221,5243
	3,87296,1004
11214	4,04976,05517,6247
	3,87261,5651
11215	4,04979,92779,1898
	3,87227,0360
11216	4,04983,80006,2258
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11217	4,04987,67198,7388
	3,87157,9962
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	3,87123,4855
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11224	4,05014,76580,2031
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11225	4,05018,63496,7536
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11226	4,05022,50378,8366
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11228	4,05030,24039,6241
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11232	4,05045,70947,8573
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11238	4,05068,90277,5888
	3,86434,5617
11239	4,05072,76712,1505
	3,86400,1799
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	3,86297,0711
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	3,86262,7138
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11406	4,05713, 33672, 4908 3, 80742, 9818
11407	4,05717, 14415, 4726 3, 80709, 6053
11408	4,05720, 95125, 0779 3, 80676, 2345
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11411	4,05732, 37053, 6928 3, 80576, 1575
11412	4,05736, 17629, 8503 3, 80542, 8102
11413	4,05739, 98172, 6605 3, 80509, 4688
11414	4,05743, 78682, 1293 3, 80476, 1332
11415	4,05747, 59158, 2625 3, 80442, 8034
11416	4,05751, 39601, 0659 3, 80409, 4794
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11418	4,05759, 00386, 7066 3, 80342, 8491
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11422	4,05774, 21558, 2875 3, 80209, 6583
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11429	4,05800, 82327, 1540 3, 79976, 7988
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11479	4,05990, 40558, 8440 3, 78321, 7755
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11497	4,06058, 45313, 6086 3, 77729, 4909
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11507	4,06096,21130,9382
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11514	4,06122,62251,1909
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11540	4,06220,58088,1971
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11541	4,06224,34410,2647
	3,76289,4617
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	3,76256,8613
11543	4,06231,86956,5877
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	3,76191,6776
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	3,75736,0230
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11571	4,06337,08935,8570
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11572	4,06340,84249,7594
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	3,74020,9983
11612	4,06490,70271,5963
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11613	4,06494,44260,3861
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11614	4,06498,18216,9730
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11615	4,06501,92141,3625
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11621	4,06524,35011,8646
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11622	4,06528,08711,0275
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	3, 71017,4552
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	3, 70985,7619
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	3, 70954,0740
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	3, 70922,3916
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11710	4,06855, 68950,7236
	3, 70859,0429
11711	4,06859, 39809,7665
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11712	4,06863, 10637,1432
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11713	4,06866, 81432,8590
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11714	4,06870, 52196,9194
	3, 70732,4104
11715	4,06874, 22929,3298
	3, 70700,7658
11716	4,06877, 93630,0956
	3, 70669,1266
11717	4,06881, 64299, 2222
	3, 70637,4928
11718	4,06885, 34936,7150
	3, 70605,8644
11719	4,06889, 05542, 5794
	3, 70574,2413
11720	4,06892, 76116,8207
	3, 70542,6238
11721	4,06896, 46659,4445
	3, 70511,0115
11722	4,06900, 17170,4560
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11724	4,06907, 58097,6640
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11727	4,06918, 69251,5191
	3, 70321,4514
11728	4,06922, 39572, 9705
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11787	4,07140, 32835,3147
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11807	4,07213,95632,3974
	3,67812,3923
11808	4,07217,63444,7897
	3,67781,2441
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11812	4,07232,34382,9304
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11814	4,07239,69665,2176
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11815	4,07243,37259,6839
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	3,67532,2491
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11826	4,07283,78746,6309
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	3,63532,8190
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	3,61746,2681
12006	4,07939,83390,1985
	3,61716,1389
12007	4,07943,45106,3374
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	3,61655,8955
12009	4,07950,68448,2476
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	3,61565,5682
12012	4,07961,53235,2695
	3,61535,5690
12013	4,07965,14770,7385
	3,61505,3749
12014	4,07968,76276,1134
	3,61475,2858
12015	4,07972,37751,3992
	3,61445,2017
12016	4,07975,99196,6009
	3,61415,1227
12017	4,07979,60611,7236
	3,61385,0486
12018	4,07983,21996,7722
	3,61354,9795
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	3,61294,8564
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	3,61264,8024
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12091	4,08246,22211,6863
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	3,59054,5923
12096	4,08264,17781,5713
	3,59024,9098
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12104	4,08292,89150,1513
	3,58787,6262
12105	4,08296,47937,7775
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12106	4,08300,06695,7653
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12107	4,08303,65424,1196
	3,58698,7258
12108	4,08307,24122,8454
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12109	4,08310,82791,9474
	3,58639,4832
12110	4,08314,41431,4306
	3,58609,8693
12111	4,08318,00041,2999
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12114	4,08328,75693,2729
	3,58491,4624
12115	4,08332,34184,7353
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12116	4,08335,92646,6082
	3,58432,2883
12117	4,08339,51078,8965
	3,58402,7086
12118	4,08343,09481,6051
	3,58373,1338
12119	4,08346,67854,7389
	3,58343,5638
12120	4,08350,26198,3027
	3,58313,9987
12121	4,08353,84512,3014
	3,58284,4385
12122	4,08357,42796,7399
	3,58254,8832
12123	4,08361,01051,6231
	3,58225,3327
12124	4,08364,59276,9558
	3,58195,7872
12125	4,08368,17472,7430
	3,58166,2465
12126	4,08371,75638,9895
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	3,58048,1324
12130	4,08386,08008,6658
	3,58018,6160
12131	4,08389,66027,2818
	3,57989,1045
12132	4,08393,24016,3863
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12133	4,08396,81975,9842
	3,57930,0961
12134	4,08400,39906,0803
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12136	4,08407,55677,7868
	3,57841,6201
12137	4,08411,13519,4069
	3,57812,1377
12138	4,08414,71331,5446
	3,57782,6602
12139	4,08418,29114,2048
	3,57753,1877
12140	4,08421,86867,3925
	3,57723,7199
12141	4,08425,44591,1124
	3,57694,2570
12142	4,08429,02285,3694
	3,57664,7990
12143	4,08432,59950,1684
	3,57635,3458
12144	4,08436,17585,5142
	3,57605,8994
12145	4,08439,75191,4116
	3,57576,4539
12146	4,08443,32767,8655
	3,57547,0153
12147	4,08446,90314,8808
	3,57517,5815
12148	4,08450,47832,4623
	3,57488,1526
12149	4,08454,05320,6149
	3,57458,7285
12150	4,08457,62779,3434
	3,57429,3092
12151	4,08461,20208,6526
	3,57399,8948
12152	4,08464,77608,5474
	3,57370,4852
12153	4,08468,34979,0326
	3,57341,0805
12154	4,08471,92320,1131
	3,57311,6805
12155	4,08475,49631,7936
	3,57282,2855
12156	4,08479,06914,0791
	3,57252,8953
12157	4,08482,64166,9744
	3,57223,5099
12158	4,08486,21390,4843
	3,57194,1283
12159	4,08489,78584,6136
	3,57164,7536
12160	4,08493,35749,3672
	3,57135,3827
12161	4,08496,92884,7499
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12162	4,08500,49990,7665
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12163	4,08504,07067,4219
	3,57047,2990
12164	4,08507,64114,7209
	3,57017,9474
12165	4,08511,21132,6683
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12166	4,08514,78121,2690
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12167	4,08518,35080,5277
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12169	4,08525,48911,0387
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	3,56841,9393
12171	4,08532,62624,2399
	3,56812,6214
12172	4,08536,19436,8613
	3,56783,3084
12173	4,08539,76220,1697
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	3,56724,6968
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	3,56695,3983
12176	4,08550,46394,2650
	3,56666,1045
12177	4,08554,03060,3695
	3,56636,8155
12178	4,08557,59697,1850
	3,56607,5315
12179	4,08561,16304,7164
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12180	4,08564,72882,9685
	3,56548,9776
12181	4,08568,29431,9461
	3,56519,7078
12182	4,08571,85951,6539
	3,56490,4430
12183	4,08575,42442,0969
	3,56461,1829
12184	4,08578,98903,2798
	3,56431,9276
12185	4,08582,55335,2074
	3,56402,6771
12186	4,08586,11737,8845
	3,56373,4314
12187	4,08589,68111,3159
	3,56344,1905
12188	4,08593,24455,5064
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12189	4,08596,80770,4607
	3,56285,7231
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	3,56256,4966
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	3,56227,2749
12192	4,08607,49539,9553
	3,56198,0579
12193	4,08611,05738,0132
	3,56168,8458
12194	4,08614,61906,8590
	3,56139,6385
12195	4,08618,18046,4975
	3,56110,4359
12896	4,08621,74156,9334
	3,56081,2382
12197	4,08625,30238,1716
	3,56052,0452
12198	4,08628,86290,2168
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12199	4,08632,42313,0739
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12204	4,08650,21989,7037
	3,55847,8284
12205	4,08653,77837,5321
	3,55818,6736
12206	4,08657,33656,2057
	3,55789,5227
12207	4,08660,89445,7294
	3,55760,3786
12208	4,08664,45206,1080
	3,55731,2382
12209	4,08668,00937,3462
	3,55702,1026
12210	4,08671,56639,4488
	3,55672,9717
12211	4,08675,12312,4205
	3,55643,8457
12212	4,08678,67956,2662
	3,55614,7244
12213	4,08682,23570,9906
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12214	4,08685,79156,5985
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	3,55527,3891
12216	4,08692,90240,4837
	3,55498,2869
12217	4,08696,45738,7706
	3,55469,1894
12218	4,08700,01207,9600
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12219	4,08703,56648,0567
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12220	4,08707,12059,0654
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12221	4,08710,67440,9910
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12222	4,08714,22793,8381
	3,55323,7735
12223	4,08717,78117,6116
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	3,55265,6404
12225	4,08724,88677,9566
	3,55236,5810
12226	4,08728,43914,5376
	3,55207,5264
12227	4,08731,99122,0640
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12228	4,08735,54300,5405
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12233	4,08753,29757,3409
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12234	4,08756,84761,6178
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12235	4,08760,39736,8781
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12236	4,08763,94683,1264
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12237	4,08767,49600,3676
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12238	4,08771,04488,6063
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12239	4,08774,59347,8473
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12241	4,08781,68979,3553
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12242	4,08785,23751,6317
	3,54743,2976
12243	4,08788,78494,9293
	3,54714,3236
12244	4,08792,33209,2529
	3,54685,3544
12245	4,08795,87894,6073
	3,54656,3898
12246	4,08799,42550,9971
	3,54627,4300
12247	4,08802,97178,4271
	3,54598,4749
12248	4,08806,51776,9020
	3,54569,5246
12249	4,08810,06346,4266
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12250	4,08813,60887,0055
	3,54511,6380
12251	4,08817,15398,6435
	3,54482,7018
12252	4,08820,69881,3453
	3,54453,7704
12253	4,08824,24335,1157
	3,54424,8436
12254	4,08827,78759,9593
	3,54395,9216
12255	4,08831,33155,8809
	3,54367,0043
12256	4,08834,87522,8852
	3,54338,0917
12257	4,08838,41860,9769
	3,54309,1839
12258	4,08841,96170,1608
	3,54280,2808
12259	4,08845,50450,4416
	3,54251,3823
12260	4,08849,04701,8239
	3,54222,4886
12261	4,08852,58924,3125
	3,54193,5996
12262	4,08856,13117,9121
	3,54164,7153
12263	4,08859,67282,6274
	3,54135,8357
12264	4,08863,21418,4631
	3,54106,9609
12265	4,08866,75525,4240
	3,54078,0907
12266	4,08870,29603,5147
	3,54049,2252
12267	4,08873,83652,7399
	3,54020,3645
12268	4,08877,37673,1044
	3,53991,5085
12269	4,08880,91664,6129
	3,53962,6571
12270	4,08884,45627,2700
	3,53933,8105
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	3,53904,9685
12272	4,08891,53466,0490
	3,53876,1313
12273	4,08895,07342,1803
	3,53847,2988
12274	4,08898,61189,4791
	3,53818,4709
12275	4,08902,15007,9500
	3,53789,6478
12276	4,08905,68797,5978
	3,53760,8293
12277	4,08909,22558,4271
	3,53732,0156
12278	4,08912,76290,4427
	3,53703,2065
12279	4,08916,29993,6492
	3,53674,4022
12280	4,08919,83668,0514
	3,53645,6025
12281	4,08923,37313,6539
	3,53616,8075
12282	4,08926,90930,4614
	3,53588,0172
12283	4,08930,44518,4786
	3,53559,2316
12284	4,08933,98077,7102
	3,53530,4507
12285	4,08937,51608,1609
	3,53501,6744
12286	4,08941,05109,8353
	3,53472,9029
12287	4,08944,58582,7382
	3,53444,1360
12288	4,08948,12026,8742
	3,53415,3738
12289	4,08951,65442,2480
	3,53386,6164
12290	4,08955,18828,8644
	3,53357,8635
12291	4,08958,72186,7279
	3,53329,1154
12292	4,08962,25515,8433
	3,53300,3719
12293	4,08965,78816,2152
	3,53271,6331
12294	4,08969,32087,8483
	3,53242,8990
12295	4,08972,85330,7473
	3,53214,1695
12296	4,08976,38544,9168
	3,53185,4448
12297	4,08979,91730,3616
	3,53156,7247
12298	4,08983,44887,0863
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12299	4,08986,98015,0955
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	3,52984,5021
12304	4,09004,63224,5736
	3,52955,8147
12305	4,09008,16180,3883
	3,52927,1319
12306	4,09011,69107,5202
	3,52898,4538
12307	4,09015,22005,9740
	3,52869,7803
12308	4,09018,74875,7543
	3,52841,1115
12309	4,09022,27716,8658
	3,52812,4475
12310	4,09025,80529,3133
	3,52783,7879
12311	4,09029,33313,1012
	3,52755,1331
12312	4,09032,86068,2343
	3,52726,4830
12313	4,09036,38794,7173
	3,52697,8374
12314	4,09039,91492,5547
	3,52669,1966
12315	4,09043,44161,7513
	3,52640,5604
12316	4,09046,96802,3117
	3,52611,9288
12317	4,09050,49414,2405
	3,52583,3019
12318	4,09054,01997,5424
	3,52554,6797
12319	4,09057,54552,2221
	3,52526,0620
12320	4,09061,07078,2841
	3,52497,4491
12321	4,09064,59575,7332
	3,52468,8408
12322	4,09068,12044,5740
	3,52440,2371
12323	4,09071,64484,8111
	3,52411,6380
12324	4,09075,16896,4491
	3,52383,0436
12325	4,09078,69279,4927
	3,52354,4539
12326	4,09082,21633,9466
	3,52325,8688
12327	4,09085,73959,8154
	3,52297,2883
12328	4,09089,26257,1037
	3,52268,7125
12329	4,09092,78525,8162
	3,52240,1412
12330	4,09096,30765,9574
	3,52211,5747
12331	4,09099,82977,5321
	3,52183,0127
12332	4,09103,35160,5448
	3,52154,4554
12333	4,09106,87315,0002
	3,52125,9027
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	3,52068,8113
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	3,52040,2725
12337	4,09120,95647,3414
	3,52011,7383
12338	4,09124,47659,0797
	3,51983,2088
12339	4,09127,99642,2885
	3,51954,6838
12340	4,09131,51596,9723
	3,51926,1635
12341	4,09135,03523,1358
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	3,51869,1368
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	3,51840,6304
12344	4,09145,59130,5509
	3,51812,1286
12345	4,09149,10942,6795
	3,51783,6314
12346	4,09152,62726,3109
	3,51755,1388
12347	4,09156,14481,4497
	3,51726,6509
12348	4,09159,66208,1006
	3,51698,1675
12349	4,09163,17906,2681
	3,51669,6888
12350	4,09166,69575,9569
	3,51641,2147
12351	4,09170,21217,1716
	3,51612,7452
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12354	4,09180,75970,0169
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	3,51385,1548
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	3,51356,7268
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	3,51328,3033
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	3,51271,4702
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	3,51157,8590
12368	4,09229,94765,7425
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	3,51044,3213
12372	4,09243,99113,3114
	3,51015,9483
12373	4,09247,50129,2598
	3,50987,5800
12374	4,09251,01116,8398
	3,50959,2162
12375	4,09254,52076,0560
	3,50930,8571
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	3,50902,5024
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	3,50874,1524
12378	4,09265,04783,5679
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12379	4,09268,55629,3749
	3,50817,4661
12380	4,09272,06446,8410
	3,50789,1298
12381	4,09275,57235,9708
	3,50760,7981
12382	4,09279,07996,7689
	3,50732,4709
12383	4,09282,58729,2398
	3,50704,1484
12384	4,09286,09433,3882
	3,50675,8304
12385	4,09289,60109,2186
	3,50647,5170
12386	4,09293,10756,7356
	3,50619,2081
12387	4,09296,61375,9437
	3,50590,9038
12388	4,09300,11966,8475
	3,50562,6042
12389	4,09303,62529,4517
	3,50534,3090
12390	4,09307,13063,7607
	3,50506,0184
12391	4,09310,63569,7791
	3,50477,7324
12392	4,09314,14047,5115
	3,50449,4510
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	3,50421,1741
12394	4,09321,14918,1366
	3,50392,9019
12395	4,09324,65311,0385
	3,50364,6340
12396	4,09328,15675,6725
	3,50336,3709
12397	4,09331,66012,0434
	3,50308,1122
12398	4,09335,16320,1556
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12399	4,09338,66600,0138
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12400	4,09342,16851,6224
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Num. absolut.	Logarithmi.	Num. absolut.	Logarithmi.	Num. absolut.	Logarithmi.
12401	4,09345,67074,9861	12434	4,09461,08630,3214	12467	4,09576,19594,7751
	3,50195,1233		3,49265,7382		3,48341,2730
12402	4,09349,17270,1094	12435	4,09464,57896,0596	12468	4,09579,67936,0481
	3,50166,8874		3,49237,6520		3,48313,3353
12403	4,09352,67436,9968	12436	4,09468,07133,7116	12469	4,09583,16249,3834
	3,50138,6561		3,49209,5703		3,48285,4021
12404	4,09356,17575,6529	12437	4,09471,56343,2819	12470	4,09586,64534,7855
	3,50110,4294		3,49181,4932		3,48257,4733
12405	4,09359,67686,0823	12438	4,09475,05524,7751	12471	4,09590,12792,2588
	3,50082,2072		3,49153,4206		3,48229,5491
12406	4,09363,17768,2895	12439	4,09478,54678,1957	12472	4,09593,61021,8079
	3,50053,9895		3,49125,3524		3,48201,6293
12407	4,09366,67822,2790	12440	4,09482,03803,5481	12473	4,09597,09223,4372
	3,50025,7765		3,49097,2888		3,48173,7140
12408	4,09370,17848,0555	12441	4,09485,52900,8369	12474	4,09600,57397,1512
	3,49997,5679		3,49069,2297		3,48145,8031
12409	4,09373,67845,6234	12442	4,09489,01970,0666	12475	4,09604,05542,9543
	3,49969,3639		3,49041,1751		3,48117,8968
12410	4,09377,17814,9873	12443	4,09492,51011,2417	12476	4,09607,53660,8511
	3,49941,1644		3,49013,1250		3,48089,9949
12411	4,09380,67756,1517	12444	4,09496,00024,3667	12477	4,09611,01750,8460
	3,49912,9695		3,48985,0495		3,48062,0975
12412	4,09384,17669,1212	12445	4,09499,49009,4462	12478	4,09614,49812,9435
	3,49884,7792		3,48957,0384		3,48034,2045
12413	4,09387,67553,9004	12446	4,09502,97966,4846	12479	4,09617,97847,1480
	3,49856,5933		3,48929,0018		3,48006,3161
12414	4,09391,17410,4937	12447	4,09506,46895,4864	12480	4,09621,45853,4641
	3,49828,4121		3,48900,9698		3,47978,4321
12415	4,09394,67238,9058	12448	4,09509,95796,4562	12481	4,09624,93831,8962
	3,49800,2352		3,48872,9422		3,47950,5525
12416	4,09398,17039,1411	12449	4,09513,44669,3984	12482	4,09628,41782,4487
	3,49772,0631		3,48844,9192		3,47922,6775
12417	4,09401,66811,2042	12450	4,09516,93514,3176	12483	4,09631,89705,1262
	3,49743,8954		3,48816,9006		3,47894,8069
12418	4,09405,16555,0996	12451	4,09520,42331,2182	12484	4,09635,37599,9331
	3,49715,7323		3,48788,8866		3,47866,9407
12419	4,09408,66270,8319	12452	4,09523,91120,1048	12485	4,09638,85466,8738
	3,49687,5737		3,48760,8770		3,47839,0790
12420	4,09412,15958,4056	12453	4,09527,39880,9818	12486	4,09642,33305,9528
	3,49659,4196		3,48732,8720		3,47811,2218
12421	4,09415,65617,8252	12454	4,09530,88613,8538	12487	4,09645,81117,1746
	3,49631,2701		3,48704,8715		3,47783,3691
12422	4,09419,15249,0953	12455	4,09534,37318,7253	12488	4,09649,28900,5437
	3,49603,1251		3,48676,8754		3,47755,5208
12423	4,09422,64852,2204	12456	4,09537,85995,6007	12489	4,09652,76656,0645
	3,49574,9846		3,48648,8838		3,47727,6769
12424	4,09426,14427,2050	12457	4,09541,34644,4845	12490	4,09656,24383,7414
	3,49546,8487		3,48620,8968		3,47699,8375
12425	4,09429,63974,0537	12458	4,09544,83265,3813	12491	4,09659,72083,5790
	3,49518,7173		3,48592,9142		3,47672,0026
12426	4,09433,13492,7710	12459	4,09548,31858,2955	12492	4,09663,19755,5816
	3,49490,5904		3,48564,9361		3,47644,1722
12427	4,09436,62983,3614	12460	4,09551,80423,2316	12493	4,09666,67399,7538
	3,49462,4680		3,48536,9625		3,47616,3462
12428	4,09440,12445,8294	12461	4,09555,28960,1941	12494	4,09670,15016,1000
	3,49434,3502		3,48508,9934		3,47588,5247
12429	4,09443,61880,1796	12462	4,09558,77469,1875	12495	4,09673,62604,6247
	3,49406,2369		3,48481,0288		3,47560,7076
12430	4,09447,11286,4165	12463	4,09562,25950,2163	12496	4,09677,10165,3323
	3,49378,1281		3,48453,0687		3,47532,8949
12431	4,09450,60664,5446	12464	4,09565,74403,2850	12497	4,09680,57698,2272
	3,49350,0238		3,48425,1130		3,47505,0867
12432	4,09454,10014,5684	12465	4,09569,22828,3980	12498	4,09684,05203,3139
	3,49321,9241		3,48397,1619		3,47477,2830
12433	4,09457,59336,4925	12466	4,09572,71225,5599	12499	4,09687,52680,5969
	3,49293,8289		3,48369,2152		3,47449,4837
12434	4,09461,08630,3214	12467	4,09576,79594,7751	12500	4,09691,00130,0806
	3,49265,7382		3,48341,2730		3,47421,6888

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12504	4,09704,89650,1114
	3,47310,5539
12505	4,09708,36960,6653
	3,47282,7813
12506	4,09711,84243,4466
	3,47255,0131
12507	4,09715,31498,4597
	3,47227,2494
12508	4,09718,78725,7091
	3,47199,4900
12509	4,09722,25925,1991
	3,47171,7352
12510	4,09725,73096,9343
	3,47143,9847
12511	4,09729,20240,9190
	3,47116,2388
12512	4,09732,67357,1578
	3,47088,4972
12513	4,09736,14445,6550
	3,47060,7601
12514	4,09739,61506,4151
	3,47033,0274
12515	4,09743,08539,4425
	3,47005,2991
12516	4,09746,55544,7416
	3,46977,5753
12517	4,09750,02522,3169
	3,46949,8559
12518	4,09753,49472,1728
	3,46922,1410
12519	4,09756,96394,3138
	3,46894,4304
12520	4,09760,43288,7442
	3,46866,7243
12521	4,09763,90155,4685
	3,46839,0226
12522	4,09767,36994,4911
	3,46811,3253
12523	4,09770,83805,8164
	3,46783,6324
12524	4,09774,30589,4488
	3,46755,9440
12525	4,09777,77345,3928
	3,46728,2600
12526	4,09781,24073,6528
	3,46700,5805
12527	4,09784,70774,2333
	3,46672,9053
12528	4,09788,17447,1386
	3,46645,2346
12529	4,09791,64092,3732
	3,46617,5682
12530	4,09795,10709,9414
	3,46589,9063
12531	4,09798,57299,8477
	3,46562,2488
12532	4,09802,03862,0965
	3,46534,5958
12533	4,09805,50396,6923
	3,46506,9471
12534	4,09808,96903,6394
	3,46479,3029
12535	4,09812,43382,9423
	3,46451,6630
12536	4,09815,89834,6053
	3,46424,0276
12537	4,09819,36258,6329
	3,46396,3965
12538	4,09822,82655,0294
	3,46368,7699
12539	4,09826,29023,7993
	3,46341,1477
12540	4,09829,75364,9470
	3,46313,5299
12541	4,09833,21678,4769
	3,46285,9165
12542	4,09836,67964,3934
	3,46258,3075
12543	4,09840,14222,7009
	3,46230,7029
12544	4,09843,60453,4038
	3,46203,1026
12545	4,09847,06656,5064
	3,46175,5069
12546	4,09850,52832,0133
	3,46147,9155
12547	4,09853,98979,9288
	3,46120,3284
12548	4,09857,45100,2573
	3,46092,7458
12549	4,09860,91193,0031
	3,46065,1676
12550	4,09864,37258,1707
	3,46037,5938
12551	4,09867,83295,7645
	3,46010,0244
12552	4,09871,29305,7889
	3,45982,4594
12553	4,09874,75288,2483
	3,45954,8987
12554	4,09878,21243,1470
	3,45927,3425
12555	4,09881,67170,4895
	3,45899,7906
12556	4,09885,13070,2801
	3,45872,2432
12557	4,09888,58942,5233
	3,45844,7001
12558	4,09892,04787,2234
	3,45817,1614
12559	4,09895,50604,3848
	3,45789,6271
12560	4,09898,96394,0119
	3,45762,0972
12561	4,09902,42156,1091
	3,45734,5716
12562	4,09905,87890,6807
	3,45707,0504
12563	4,09909,33597,7311
	3,45679,5337
12564	4,09912,79277,2648
	3,45652,0213
12565	4,09916,24929,2861
	3,45624,5132
12566	4,09919,70553,7993
	3,45597,0096
12567	4,09923,16150,8089
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12568	4,09926,61720,3192
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12569	4,09930,07262,3347
	3,45514,5250
12570	4,09933,52776,8597
	3,45487,0388
12571	4,09936,98263,8985
	3,45459,5570
12572	4,09940,43723,4555
	3,45432,0795
12573	4,09943,89155,5351
	3,45404,6066
12574	4,09947,34560,1417
	3,45377,1380
12575	4,09950,79937,2797
	3,45349,6737
12576	4,09954,25286,9534
	3,45322,2137
12577	4,09957,70609,1671
	3,45294,7582
12578	4,09961,15903,9253
	3,45267,3070
12579	4,09964,61171,2323
	3,45239,8602
12580	4,09968,06411,0925
	3,45212,4177
12581	4,09971,51623,5102
	3,45184,9797
12582	4,09974,96808,4899
	3,45157,5459
12583	4,09978,41966,0358
	3,45130,1165
12584	4,09981,87096,1523
	3,45102,6915
12585	4,09985,32198,8438
	3,45075,2708
12586	4,09988,77274,1146
	3,45047,8546
12587	4,09992,22321,9692
	3,45020,4426
12588	4,09995,67342,4118
	3,44993,0350
12589	4,09999,12335,4468
	3,44965,6318
12590	4,10002,57301,0786
	3,44938,2329
12591	4,10006,02239,3115
	3,44910,8384
12592	4,10009,47150,1499
	3,44883,4482
12593	4,10012,92033,5981
	3,44856,0623
12594	4,10016,36889,6604
	3,44828,6809
12595	4,10019,81718,3413
	3,44801,3038
12596	4,10023,26519,6451
	3,44773,9310
12597	4,10026,71293,5761
	3,44746,5625
12598	4,10030,16040,1386
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12599	4,10033,60759,3370
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Num. absolut.	Logarithmi.	Num. absolut.	Logarithmi.	Num. absolut.	Logarithmi.
12601	4,10040, 50115,6590 3,44637,1322	12634	4,10154, 08725,5835 3,43736,9758	12667	4,10267, 37705,4892 3,42841,5095
12602	4,10043, 94752,7912 3,44609,7855	12635	4,10157, 52462,5593 3,43709,7718	12668	4,10270, 80546,9987 3,42814,4470
12603	4,10047, 39362,5767 3,44582,4430	12636	4,10160, 96172,3311 3,43682,5720	12669	4,10274, 23361,4457 3,42787,3887
12604	4,10050, 83945,0197 3,44555,1050	12637	4,10164, 39854,9031 3,43655,3765	12670	4,10277, 66148,8344 3,42760,3347
12605	4,10054, 28500,1247 3,44527,7713	12638	4,10167, 83510,2796 3,43628,1854	12671	4,10281, 08909,1691 3,42733,2850
12606	4,10057, 73027,8960 3,44500,4419	12639	4,10171, 27138,4650 3,43600,9986	12672	4,10284, 51642,4541 3,42706,2396
12607	4,10061, 17528,3379 3,44473,1169	12640	4,10174, 70739,4636 3,43573,8160	12673	4,10287, 94348,6937 3,42679,1984
12608	4,10064, 62001,4548 3,44445,7962	12641	4,10178, 14313,2796 3,43546,6378	12674	4,10291, 37027,8921 3,42652,1616
12609	4,10068, 06447,2510 3,44418,4798	12642	4,10181, 57859,9174 3,43519,4638	12675	4,10294, 79680,0537 3,42625,1289
12610	4,10071, 50855,7308 3,44391,1678	12643	4,10185, 01379,3812 3,43492,2942	12676	4,10298, 22305,1826 3,42598,1005
12611	4,10074, 95256,8986 3,44363,8601	12644	4,10188, 44871,6754 3,43465,1288	12677	4,10301, 64903,2831 3,42571,0764
12612	4,10078, 39620,7587 3,44336,5567	12645	4,10191, 88336,8042 3,43437,9678	12678	4,10305, 07474,3595 3,42544,0566
12613	4,10081, 83957,3154 3,44309,2576	12646	4,10195, 31774,7720 3,43410,8110	12679	4,10308, 50018,4161 3,42517,0410
12614	4,10085, 28266,5730 3,44281,9629	12647	4,10198, 75185,5830 3,43383,6585	12680	4,10311, 92535,4571 3,42490,0297
12615	4,10088, 72548,5359 3,44254,6725	12648	4,10202, 18569,2415 3,43356,5104	12681	4,10315, 35025,4868 3,42463,0226
12616	4,10092, 16803,2084 3,44227,3865	12649	4,10205, 61925,7519 3,43329,3665	12682	4,10318, 77488,5094 3,42436,0198
12617	4,10095, 61030,5949 3,44200,1047	12650	4,10209, 05255,1184 3,43302,2269	12683	4,10322, 19924,5292 3,42409,0213
12618	4,10099, 05230,6996 3,44172,8273	12651	4,10212, 48557,3453 3,43275,0916	12684	4,10325, 62333,5505 3,42382,0270
12619	4,10102, 49403,5269 5,44145,5542	12652	4,10215, 91832,4369 3,43247,9606	12685	4,10329, 04715,5775 3,42355,0369
12620	4,10105, 93549,0811 3,44118,2854	12653	4,10219, 35080, 3975 3,43220,8338	12686	4,10332, 47070,6144 3,42328,0512
12621	4,10109, 37667,3665 3,44091,0200	12654	4,10222, 78301,2313 3,43193,7114	12687	4,10335, 89398,6656 3,42301,0696
12622	4,10112, 81758,3875 3,44063,7609	12655	4,10226, 21494,9427 3,43166,5933	12688	4,10339, 31699,7352 3,42274,0924
12623	4,10116, 25822,1484 3,44036,5050	12656	4,10229, 64661,5360 3,43139,4794	12689	4,10342, 73973,8276 3,42247,1194
12624	4,10119, 69858,6534 3,44009,2536	12657	4,10233, 07801,0154 3,43112,3698	12690	4,10346, 16220,9470 3,42220,1506
12625	4,10123, 13867,9070 3,43982,0064	12658	4,10236, 50913,3852 3,43085,2645	12691	4,10349, 58441,0976 3,42193,1861
12626	4,10126, 57849,9134 3,43954,7635	12659	4,10239, 93998,6497 3,43058,1636	12692	4,10353, 00634,2837 3,42166,2258
12627	4,10130, 01804,6769 3,43927,5249	12660	4,10243, 37056,8133 3,43031,0668	12693	4,10356, 42800,5095 3,42139,2698
12628	4,10133, 45732,2018 3,43900,2907	12661	4,10246, 80087,8801 3,43003,9743	12694	4,10359, 84939,7793 3,42112,3180
12629	4,10136, 89632,4925 3,43873,0608	12662	4,10250, 23091,8544 3,42976,8862	12695	4,10363, 27052,0973 3,42085,3705
12630	4,10140, 33505,5533 3,43845,8352	12663	4,10253, 66068,7406 3,42949,8023	12696	4,10366, 69137,4678 3,42058,4272
12631	4,10143, 77351,3885 3,43818,6139	12664	4,10257, 09018,5429 3,42922,7227	12697	4,10370, 11195,8950 3,42031,4882
12632	4,10147, 21170,0024 3,43791,3969	12665	4,10260, 51941,2656 3,42895,6473	12698	4,10373, 53227,3832 3,42004,5534
12633	4,10150, 64961, 3993 3,43764,1842	12666	4,10263, 94836,9129 3,42868,5763	12699	4,10376, 95231,9366 3,41977,6229
12634	4,10154, 08725,5835 3,43736,9758	12667	4,10267, 37705,4892 3,42841,5095	12700	4,10380, 37209,5595 3,41950,6965

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12704	4,10394,04850,8302
	3,41843,0337
12705	4,10397,46693,8639
	3,41816,1285
12706	4,10400,88509,9924
	3,41789,2277
12707	4,10404,30299,2201
	3,41762,3310
12708	4,10407,72061,5511
	3,41735,4386
12709	4,10411,13796,9897
	3,41708,5504
12710	4,10414,55505,5401
	3,41681,6664
12711	4,10417,97187,2065
	3,41654,7867
12712	4,10421,38841,9932
	3,41627,9112
12713	4,10424,80469,9044
	3,41601,0399
12714	4,10428,22070,9443
	3,41574,1730
12715	4,10431,63645,1173
	3,41547,3101
12716	4,10435,05192,4274
	3,41520,4515
12717	4,10438,46712,8789
	3,41493,5971
12718	4,10441,88206,4760
	3,41466,7470
12719	4,10445,29673,2230
	3,41439,9010
12720	4,10448,71113,1240
	3,41413,0593
12721	4,10452,12526,1833
	3,41386,2219
12722	4,10455,53912,4052
	3,41359,3886
12723	4,10458,95271,7938
	3,41332,5595
12724	4,10462,36604,3533
	3,41305,7347
12725	4,10465,77910,0880
	3,41278,9141
12726	4,10469,19189,0021
	3,41252,0977
12727	4,10472,60441,0998
	3,41225,2855
12728	4,10476,01666,3853
	3,41198,4775
12729	4,10479,42864,8628
	3,41171,6738
12730	4,10482,84036,5366
	3,41144,8742
12731	4,10486,25181,4108
	3,41118,0789
12732	4,10489,66299,4897
	3,41091,2878
12733	4,10493,07390,7775
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12734	4,09496,48455,2783
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12734	4,10496,48455,2783
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12735	4,10499,89492,9964
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12736	4,10503,30503,9360
	3,40984,1653
12737	4,10506,71488,1013
	3,40957,3952
12738	4,10510,12445,4965
	3,40930,6293
12739	4,10513,53376,1258
	3,40903,8676
12740	4,10516,94279,9934
	3,40877,1101
12741	4,10520,35157,1035
	3,40850,3568
12742	4,10523,76007,4603
	3,40823,6077
12743	4,10527,16831,0680
	3,40796,8628
12744	4,10530,57627,9308
	3,40770,1221
12745	4,10533,98398,0529
	3,40743,3856
12746	4,10537,39141,4385
	3,40716,6533
12747	4,10540,79858,0918
	3,40689,9252
12748	4,10544,20548,0170
	3,40663,2012
12749	4,10547,61211,2182
	3,40636,4815
12750	4,10551,01847,6997
	3,40609,7660
12751	4,10554,42457,4657
	3,40583,0547
12752	4,10557,83040,5204
	3,40556,3475
12753	4,10561,23596,8679
	3,40529,6445
12754	4,10564,64126,5124
	3,40502,9457
12755	4,10568,04629,4581
	3,40476,2511
12756	4,10571,45105,7092
	3,40449,5607
12757	4,10574,85555,2699
	3,40422,8745
12758	4,10578,25978,1444
	3,40396,1925
12759	4,10581,66374,3369
	3,40369,5146
12760	4,10585,06743,8515
	3,40342,8409
12761	4,10588,47086,6924
	3,40316,1714
12762	4,10591,87402,8638
	3,40289,5061
12763	4,10595,27692,3699
	3,40262,8449
12764	4,10598,67955,2148
	3,40236,1879
12765	4,10602,08191,4027
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12766	4,10605,48400,9379
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12767	4,10608,88583,8245
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Num. absolut.	Logarithmi.
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	3,40129,6019
12769	4,10615,68869,6685
	3,40102,9657
12770	4,10619,08972,6342
	3,40076,3338
12771	4,10622,49048,9680
	3,40049,7061
12772	4,10625,89098,6741
	3,40023,0825
12773	4,10629,29121,7566
	3,39996,4631
12774	4,10632,69118,2197
	3,39969,8479
12775	4,10636,09088,0676
	3,39943,2367
12776	4,10639,49031,3043
	3,39916,6298
12777	4,10642,88947,9341
	3,39890,0271
12778	4,10646,28837,9612
	3,39863,4285
12779	4,10649,68701,3897
	3,39836,8341
12780	4,10653,08538,2238
	3,39810,2438
12781	4,10656,48348,4676
	3,39783,6577
12782	4,10659,88132,1253
	3,39757,0757
12783	4,10663,27889,2011
	3,39730,4980
12784	4,10666,67619,6991
	3,39703,9244
12785	4,10670,07323,6235
	3,39677,3549
12786	4,10673,47000,9784
	3,39650,7896
12787	4,10676,86651,7680
	3,39624,2284
12788	4,10680,26275,9964
	3,39597,6715
12789	4,10683,65873,6679
	3,39571,1186
12790	4,10687,05444,7865
	3,39544,5699
12791	4,10690,44989,3564
	3,39518,0253
12792	4,10693,84507,3817
	3,39491,4850
12793	4,10697,23998,8667
	3,39464,9487
12794	4,10700,63463,8154
	3,39438,4166
12795	4,10704,02902,2320
	3,39411,8886
12796	4,10707,42314,1206
	3,39385,3649
12797	4,10710,81699,4855
	3,39358,8452
12798	4,10714,21058,3307
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12799	4,10717,60390,6604
	3,39305,8183
12800	4,10720,99696,4787
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	3,39252,8080
12802	4,10727,78228,5978
	3,39226,3090
12803	4,10731,17454,9068
	3,39199,8142
12804	4,10734,56654,7210
	3,39173,3236
12805	4,10737,95828,0446
	3,39146,8370
12806	4,10741,34974,8816
	3,39120,3546
12807	4,10744,74095,2362
	3,39093,8764
12808	4,10748,13189,1126
	3,39067,4022
12809	4,10751,52256,5148
	3,39040,9322
12810	4,10754,91297,4470
	3,39014,4664
12811	4,10758,30311,9134
	3,38988,0046
12812	4,10761,69299,9180
	3,38961,5470
12813	4,10765,08261,4650
	3,38935,0935
12814	4,10768,47196,5585
	3,38908,6442
12815	4,10771,86105,2027
	3,38882,1990
12816	4,10775,24987,4017
	3,38855,7579
12817	4,10778,63843,1596
	3,38829,3209
12818	4,10782,02672,4805
	3,38802,8881
12819	4,10785,41475,3686
	3,38776,4594
12820	4,10788,80251,8280
	3,38750,0348
12821	4,10792,19001,8628
	3,38723,6143
12822	4,10795,57725,4771
	3,38697,1980
12823	4,10798,96422,6751
	3,38670,7858
12824	4,10802,35093,4609
	3,38644,3776
12825	4,10805,73737,8385
	3,38617,9737
12826	4,10809,12355,8122
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12828	4,10815,89512,5640
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12829	4,10819,28051,3504
	3,38512,3989
12830	4,10822,66563,7493
	3,38486,0154
12831	4,10826,05049,7647
	3,38459,6361
12832	4,10829,43509,4008
	3,38433,2610
12833	4,10832,81942,6618
	3,38406,8899
12834	4,10836,20349,5517
	3,38380,5229
12835	4,10839,58730,0746
	3,38354,1601
12836	4,10842,97084,2347
	3,38327,8013
12837	4,10846,35412,0360
	3,38301,4466
12838	4,10849,73713,4826
	3,38275,0961
12839	4,10853,11988,5787
	3,38248,7497
12840	4,10856,50237,3284
	3,38222,4074
12841	4,10859,88459,7358
	3,38196,0691
12842	4,10863,26655,8049
	3,38169,7350
12843	4,10866,64825,5399
	3,38143,4049
12844	4,10870,02968,9448
	3,38117,0790
12845	4,10873,41086,0238
	3,38090,7572
12846	4,10876,79176,7810
	3,38064,4394
12847	4,10880,17241,2204
	3,38038,1258
12848	4,10883,55279,3462
	3,38011,8162
12849	4,10886,93291,1624
	3,37985,5108
12850	4,10890,31276,6732
	3,37959,2094
12851	4,10893,69235,8826
	3,37932,9122
12852	4,10897,07168,7948
	3,37906,6190
12853	4,10900,45075,4138
	3,37880,3300
12854	4,10903,82955,7438
	3,37854,0450
12855	4,10907,20809,7888
	3,37827,7641
12856	4,10910,58637,5529
	3,37801,4873
12857	4,10913,96439,0402
	3,37775,2145
12858	4,10917,34214,2547
	3,37748,9459
12859	4,10920,71963,2006
	3,37722,6814
12860	4,10924,09685,8820
	3,37696,4209
12861	4,10927,47382,3029
	3,37670,1645
12862	4,10930,85052,4674
	3,37643,9122
12863	4,10934,22696,3796
	3,37617,6641
12864	4,10937,60314,0437
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12865	4,10940,97905,4636
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12866	4,10944,35470,6434
	3,37538,9439
12867	4,10947,73009,5873
	3,37512,7120
12867	4,10947,73009,5873
	3,37512,7120
12868	4,10951,10522,2993
	3,37486,4841
12869	4,10954,48008,7834
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	3,37407,8252
12872	4,10964,60310,9097
	3,37381,6136
12873	4,10967,97692,5233
	3,37355,4062
12874	4,10971,35047,9295
	3,37329,2028
12875	4,10974,72377,1323
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12876	4,10978,09680,1358
	3,37276,8082
12877	4,10981,46956,9440
	3,37250,6171
12878	4,10984,84207,5611
	3,37224,4300
12879	4,10988,21431,9911
	3,37198,2469
12880	4,10991,58630,2380
	3,37172,0680
12881	4,10994,95802,3060
	3,37145,8930
12882	4,10998,32948,1990
	3,37119,7222
12883	4,11001,70067,9212
	3,37093,5554
12884	4,11005,07161,4766
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12885	4,11008,44228,8693
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	3,37015,0795
12887	4,11015,18285,1828
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12888	4,11018,55274,1117
	3,36962,7824
12889	4,11021,92236,8941
	3,36936,6400
12890	4,11025,29173,5341
	3,36910,5016
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	3,36884,3673
12892	4,11032,02968,4030
	3,36858,2371
12893	4,11035,39826,6401
	3,36832,1108
12894	4,11038,76658,7509
	3,36805,9887
12895	4,11042,13464,7396
	3,36779,8706
12896	4,11045,50244,6102
	3,36753,7565
12897	4,11048,86998,3667
	3,36727,6465
12898	4,11052,23726,0132
	3,36701,5406
12899	4,11055,60427,5538
	3,36675,4387
12900	4,11058,97102,9925
	3,36649,3408

Num. absolut.	Logarithmi.
12901	4,11062,33752,3333
	3,36623,2470
12902	4,11065,70375,5803
	3,36597,1573
12903	4,11069,06972,7376
	3,36571,0715
12904	4,11072,43543,8091
	3,36544,9898
12905	4,11075,80088,7989
	3,36518,9122
12906	4,11079,16607,7111
	3,36492,8386
12907	4,11082,53100,5497
	3,36466,7690
12908	4,11085,89567,3187
	3,36440,7035
12909	4,11089,26008,0222
	3,36414,6420
12910	4,11092,62422,6642
	3,36388,5846
12911	4,11095,98811,2488
	3,36362,5312
12912	4,11099,35173,7800
	3,36336,4818
12913	4,11102,71510,2618
	3,36310,4365
12914	4,11106,07820,6983
	3,36284,3951
12915	4,11109,44105,0934
	3,36258,3579
12916	4,11112,80363,4513
	3,36232,3246
12917	4,11116,16595,7759
	3,36206,2954
12918	4,11119,52802,0713
	3,36180,2703
12919	4,11122,88982,3416
	3,36154,2491
12920	4,11126,25136,5907
	3,36128,2320
12921	4,11129,61264,8227
	3,36102,2189
12922	4,11132,97367,0416
	3,36076,2098
12923	4,11136,33443,2514
	3,36050,2048
12924	4,11139,69493,4562
	3,36024,2037
12925	4,11143,05517,6599
	3,35998,2067
12926	4,11146,41515,8666
	3,35972,2138
12927	4,11149,77488,0804
	3,35946,2248
12928	4,11153,13434,3052
	3,35920,2399
12929	4,11156,49354,5451
	3,35894,2589
12930	4,11159,85248,8040
	3,35868,2821
12931	4,11163,21117,0861
	3,35842,3092
12932	4,11166,56959,3953
	3,35816,3403
12933	4,11169,92775,7356
	3,35790,3755
12934	4,11173,28566,1111
	3,35764,4146

Num. absolut.	Logarithmi.
12934	4,11173,28566,1111
	3,35764,4146
12935	4,11176,64330,5257
	3,35738,4579
12936	4,11180,00068,9836
	3,35712,5050
12937	4,11183,35781,4886
	3,35686,5562
12938	4,11186,71468,0448
	3,35660,6115
12939	4,11190,07128,6563
	3,35634,6707
12940	4,11193,42763,3270
	3,35608,7339
12941	4,11196,78372,0609
	3,35582,8012
12942	4,11200,13954,8621
	3,35556,8724
12943	4,11203,49511,7345
	3,35530,9477
12944	4,11206,85042,6822
	3,35505,0269
12945	4,11210,20547,7091
	3,35479,1102
12946	4,11213,56026,8193
	3,35453,1975
12947	4,11216,91480,0168
	3,35427,2887
12948	4,11220,26907,3055
	3,35401,3840
12949	4,11223,62308,6895
	3,35375,4833
12950	4,11226,97684,1728
	3,35349,5866
12951	4,11230,33033,7594
	3,35323,6939
12952	4,11233,68357,4533
	3,35297,8051
12953	4,11237,03655,2584
	3,35271,9204
12954	4,11240,38927,1788
	3,35246,0397
12955	4,11243,74173,2185
	3,35220,1629
12956	4,11247,09393,3814
	3,35194,2902
12957	4,11250,44587,6716
	3,35168,4215
12958	4,11253,79756,0931
	3,35142,5567
12959	4,11257,14898,6498
	3,35116,6960
12960	4,11260,50015,3458
	3,35090,8391
12961	4,11263,85106,1849
	3,35064,9864
12962	4,11267,20171,1713
	3,35039,1376
12963	4,11270,55210,3089
	3,35013,2928
12964	4,11273,90223,6017
	3,34987,4520
12965	4,11277,25211,0537
	3,34961,6151
12966	4,11280,60172,6688
	3,34935,7823
12967	4,11283,95108,4511
	3,34909,9534

Num. absolut.	Logarithmi.
12967	4,11283,95108,4511
	3,34909,9534
12968	4,11287,30018,4045
	3,34884,1286
12969	4,11290,64902,5331
	3,34858,3077
12970	4,11293,99760,8408
	3,34832,4908
12971	4,11297,34593,3316
	3,34806,6778
12972	4,11300,69400,0094
	3,34780,8688
12973	4,11304,04180,8782
	3,34755,0639
12974	4,11307,38935,9421
	3,34729,2629
12975	4,11310,73665,2050
	3,34703,4659
12976	4,11314,08368,6709
	3,34677,6728
12977	4,11317,43046,3437
	3,34651,8837
12978	4,11320,77698,2274
	3,34626,0987
12979	4,11324,12324,3261
	3,34600,3175
12980	4,11327,46924,6436
	3,30574,5404
12981	4,11330,81499,1840
	3,34548,7672
12982	4,11334,16047,9512
	3,34522,9980
12983	4,11337,50570,9492
	3,34497,2327
12984	4,11340,85068,1819
	3,34471,4714
12985	4,11344,19539,6533
	3,34445,7141
12986	4,11347,53985,3674
	3,34419,9608
12987	4,11350,88405,3282
	3,34394,2114
12988	4,11354,22799,5396
	3,34368,4661
12989	4,11357,57168,0057
	3,34342,7246
12990	4,11360,91510,7303
	3,34316,9871
12991	4,11364,25827,7174
	3,34291,2536
12992	4,11367,60118,9710
	3,34265,5240
12993	4,11370,94384,4950
	3,34239,7985
12994	4,11374,28624,2935
	3,34214,0768
12995	4,11377,62838,3703
	3,34188,3591
12996	4,11380,97026,7294
	3,34162,6454
12997	4,11384,31189,3748
	3,34136,9357
12998	4,11387,65326,3105
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12999	4,11390,99437,5404
	3,34085,5280
13000	4,11394,33523,0684
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Num. absolut.	Logarithmi.
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13002	4,11401,01617,0346
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13003	4,11404,35625,4808
	3,33982,7601
13004	4,11407,69608,2409
	3,33957,0780
13005	4,11411,03565,3189
	3,33931,3999
13006	4,11414,37496,7188
	3,33905,7257
13007	4,11417,71402,4445
	3,33880,0554
13008	4,11421,05282,4999
	3,33854,3891
13009	4,11424,39136,8890
	3,33828,7268
13010	4,11427,72965,6158
	3,33803,0684
13011	4,11431,06768,6842
	3,33777,4139
13012	4,11434,40546,0981
	3,33751,7634
13013	4,11437,74297,8615
	3,33726,1168
13014	4,11441,08023,9783
	3,33700,4742
13015	4,11444,41724,4525
	3,33674,8355
13016	4,11447,75399,2880
	3,33649,2007
13017	4,11451,09048,4887
	3,33623,5699
13018	4,11454,42672,0586
	3,33597,9430
13019	4,11457,76270,0016
	3,33572,3201
13020	4,11461,09842,3217
	3,33546,7011
13021	4,11464,43389,0228
	3,33521,0860
13022	4,11467,76910,1088
	3,33495,4748
13023	4,11471,10405,5836
	3,33469,8676
13024	4,11474,43875,4512
	3,33444,2644
13025	4,11477,77319,7156
	3,33418,6650
13026	4,11481,10738,3806
	3,33393,0696
13027	4,11484,44131,4502
	3,33367,4781
13028	4,11487,77498,9283
	3,33341,8906
13029	4,11491,10840,8189
	3,33316,3070
13030	4,11494,44157,1259
	3,33290,7272
13031	4,11497,77447,8531
	3,33265,1514
13032	4,11501,10713,0045
	3,33239,5796
13033	4,11504,43952,5841
	3,33214,0117
13034	4,11507,77166,5958
	3,33188,4477
13035	4,11511,10355,0435
	3,33162,8876
13036	4,11514,43517,9311
	3,33137,3314
13037	4,11517,76655,2625
	3,33111,7792
13038	4,11521,09767,0417
	3,33086,2309
13039	4,11524,42853,2726
	3,33060,6861
13040	4,11527,75913,9590
	3,33035,1460
13041	4,11531,08949,1050
	3,33009,6094
13042	4,11534,41958,7144
	3,32984,0768
13043	4,11537,74942,7912
	3,32958,5480
13044	4,11541,07901,3392
	3,32933,0232
13045	4,11544,40834,3624
	3,32907,5023
13046	4,11547,73741,8647
	3,32881,9853
13047	4,11551,06623,8500
	3,32856,4721
13048	4,11554,39480,3222
	3,32830,9630
13049	4,11557,72311,2852
	3,32805,4578
13050	4,11561,05116,7430
	3,32779,9564
13051	4,11564,37896,6994
	3,32754,4590
13052	4,11567,70651,1584
	3,32728,9654
13053	4,11571,03380,1238
	3,32703,4758
13054	4,11574,36083,5996
	3,32677,9901
13055	4,11577,68761,5897
	3,32652,5082
13056	4,11581,01414,0979
	3,32627,0303
13057	4,11584,34041,1282
	3,32601,5563
13058	4,11587,66642,6845
	3,32576,0862
13059	4,11590,99218,7707
	3,32550,6199
13060	4,11594,31769,3906
	3,32525,1576
13061	4,11597,64294,5482
	3,32499,6992
13062	4,11600,96794,2474
	3,32474,2447
13063	4,11604,29268,4921
	3,32448,7940
13064	4,11607,61717,2861
	3,32423,3473
13065	4,11610,94140,6334
	3,32397,9045
13066	4,11614,26538,5379
	3,32372,4655
13067	4,11617,58911,0034
	3,32347,0305
13068	4,11620,91258,0339
	3,32321,5994
13069	4,11624,23579,6333
	3,32296,1721
13070	4,11627,55875,8054
	3,32270,7487
13071	4,11630,88146,5541
	3,32245,3292
13072	4,11634,20391,8833
	3,32219,9137
13073	4,11637,52611,7970
	3,32194,5
13074	4,11640,84806,2930
	3,32169,0941
13075	4,11644,16975,3931
	3,32143,6902
13076	4,11647,49119,0833
	3,32118,2902
13077	4,11650,81237,3735
	3,32092,8940
13078	4,11654,13330,2675
	3,32067,5017
13079	4,11657,45397,7692
	3,32042,1133
13080	4,11660,77439,8825
	3,32016,7388
13081	4,11664,09456,6113
	3,31991,3482
13082	4,11667,41447,9595
	3,31965,9714
13083	4,11670,73413,9309
	3,31940,6985
13084	4,11674,05354,5294
	3,31915,2296
13085	4,11677,37269,7590
	3,31889,8644
13086	4,11680,69159,6234
	3,31864,5032
13087	4,11684,01024,1266
	3,31839,1459
13088	4,11687,32863,2725
	3,31813,7924
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	3,31788,4427
13090	4,11693,96465,5076
	3,31763,0970
13091	4,11697,28228,6046
	3,31737,7551
13092	4,11700,59966,3597
	3,31712,4171
13093	4,11703,91678,7768
	3,31687,0830
13094	4,11707,23365,8598
	3,31661,7528
13095	4,11710,55027,6126
	3,31636,4264
13096	4,11713,86664,0390
	3,31611,1038
13097	4,11717,18275,1428
	3,31585,7851
13098	4,11720,49860,9279
	3,31560,4704
13099	4,11723,81421,3983
	3,31535,1594
13100	4,11727,12956,5577
	3,31509,8524

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13101	4,11730,44466,4101
	3,31484,5492
13102	4,11733,75950,9593
	3,31459,2498
13103	4,11737,07410,2091
	3,31433,9544
13104	4,11740,38844,1635
	3,31408,6627
13105	4,11743,70252,8262
	3,31383,3750
13106	4,11747,01636,2012
	3,31358,0911
13107	4,11750,32994,2923
	3,31332,8110
13108	4,11753,64327,1033
	3,31307,5349
13109	4,11756,95634,6382
	3,31282,2626
13110	4,11760,26916,9008
	3,31256,9941
13111	4,11763,58173,8949
	3,31231,7295
13112	4,11766,89405,6244
	3,31206,4687
13113	4,11770,20612,0931
	3,31181,2118
13114	4,11773,51793,3049
	3,31155,9588
13115	4,11776,82949,2637
	3,31130,7096
13116	4,11780,14079,9733
	3,31105,4642
13117	4,11783,45185,4375
	3,31080,2227
13118	4,11786,76265,6602
	3,31054,9850
13119	4,11790,07320,6452
	3,31029,7512
13120	4,11793,38350,3964
	3,31004,5212
13121	4,11796,69354,9176
	3,30979,2951
13122	4,11800,00334,2127
	3,30954,0729
13123	4,11803,31288,2856
	3,30928,8544
13124	4,11806,62217,1400
	3,30903,6399
13125	4,11809,93120,7799
	3,30878,4291
13126	4,11813,23999,2090
	3,30853,2222
13127	4,11816,54852,4312
	3,30828,0192
13128	4,11819,85680,4504
	3,30802,8199
13129	4,11823,16483,2703
	3,30777,6245
13130	4,11826,47260,8948
	3,30752,4330
13131	4,11829,78013,3278
	3,30727,2452
13132	4,11833,08740,5730
	3,30702,0614
13133	4,11836,39442,6344
	3,30676,8813
13134	4,11839,70119,5157
	3,30651,7052
13135	4,11843,00771,2209
	3,30626,5328
13136	4,11846,31397,7537
	3,30601,3642
13137	4,11849,61999,1179
	3,30576,1995
13138	4,11852,92575,3174
	3,30551,0387
13139	4,11856,23126,3561
	3,30525,8816
13140	4,11859,53652,2377
	3,30500,7284
13141	4,11862,84152,9661
	3,30475,5790
13142	4,11866,14628,5451
	3,30450,4334
13143	4,11869,45078,9785
	3,30425,2917
13144	4,11872,75504,2702
	3,30400,1537
13145	4,11876,05904,4239
	3,30375,0197
13146	4,11879,36279,4436
	3,30349,8894
13147	4,11882,66629,3330
	3,30324,7629
13148	4,11885,96954,0959
	3,30299,6403
13149	4,11889,27253,7362
	3,30274,5215
13150	4,11892,57528,2577
	3,30249,4066
13151	4,11895,87777,6643
	3,30224,2954
13152	4,11899,18001,9597
	3,30199,1881
13153	4,11902,48201,1478
	3,30174,0845
13154	4,11905,78375,2323
	3,30148,9848
13155	4,11909,08524,2171
	3,30123,8890
13156	4,11912,38648,1061
	3,30098,7969
13157	4,11915,68746,9030
	3,30073,7086
13158	4,11918,98820,6116
	3,30048,6242
13159	9,11922,28869,2358
	3,30023,5435
13160	4,11925,58892,7793
	2,29998,4667
13161	4,11928,88891,2460
	3,29973,3937
13162	4,11932,18864,6397
	3,29948,3245
13163	4,11935,48812,9642
	3,29923,2591
13164	4,11938,78736,2233
	3,29898,1975
13165	4,11942,08634,4208
	3,29873,1397
13166	4,11945,38507,5605
	3,29848,0857
13167	4,11948,68355,6462
	3,29823,0356
13167	4,11948,68355,6462
	3,29823,0356
13168	4,11951,98178,6818
	3,29797,9892
13169	4,11955,27976,6710
	3,29772,9467
13170	4,11958,57749,6177
	3,29747,9079
13171	4,11961,87497,5256
	3,29722,8730
13172	4,11965,17220,3986
	3,29697,8418
13173	4,11968,46918,2404
	3,29672,8144
13174	4,11971,76591,0548
	3,29647,7909
13175	4,11975,06238,8457
	3,29622,7711
13176	4,11978,35861,6168
	3,29597,7552
13177	4,11981,65459,3720
	3,29572,7430
13178	4,11984,95032,1150
	3,29547,7347
13179	4,11988,24579,8497
	3,29522,7301
13180	4,11991,54102,5798
	3,29497,7293
13181	4,11994,83600,3091
	3,29472,7324
13182	4,11998,13073,0415
	3,29447,7392
13183	4,12001,42520,7807
	3,29422,7497
13184	4,12004,71943,5304
	3,29397,7641
13185	4,12008,01341,2945
	3,29372,7823
13186	4,12011,30714,0768
	3,29347,8043
13187	4,12014,60061,8811
	3,29322,8300
13188	4,12017,89384,7111
	3,29297,8596
13189	4,12021,18682,5707
	3,29272,8929
13190	4,12024,47955,4636
	2,29247,9300
13191	4,12027,77203,3936
	3,29222,9709
13192	4,12031,06426,3645
	3,29198,0156
13193	4,12034,35624,3801
	3,29173,0641
13194	4,12037,64797,4442
	3,29148,1164
13195	4,12040,93945,5606
	3,29123,1724
13196	4,12044,23068,7330
	3,29098,2322
13197	4,12047,52166,9652
	3,29073,2958
13198	4,12050,81240,2610
	3,29048,3632
13199	4,12054,10288,6242
	3,29023,4343
13200	4,12057,39312,0585
	3,28998,5092

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13201	4,12060,68310,5677
	3,28973,5880
13202	4,12063,97284,1557
	3,28948,6704
13203	4,12067,26232,8261
	3,28923,7567
13204	4,12070,55156,5828
	3,28898,8467
13205	4,12073,84055,4295
	3,28873,9405
13206	4,12077,12929,3700
	3,28849,0380
13207	4,12080,41778,4080
	3,28824,1394
13208	4,12083,70602,5474
	3,28799,2445
13209	4,12086,99401,7919
	3,28774,3534
13210	4,12090,28176,1453
	3,28749,4660
13211	4,12093,56925,6113
	3,28724,5825
13212	4,12096,85650,1938
	3,28699,7026
13213	4,12100,14349,8964
	3,28674,8266
13214	4,12103,43024,7230
	3,28649,9543
13215	4,12106,71674,6773
	3,28625,0858
13216	4,12110,00299,7631
	3,28600,2210
13217	4,12113,28899,9841
	3,28575,3600
13218	4,12116,57475,3441
	3,28550,5028
13219	4,12119,86025,8469
	3,28525,6493
13220	4,12123,14551,4962
	3,28500,7996
13221	4,12126,43052,2958
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13222	4,12129,71528,2494
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13223	4,12132,99979,3609
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13224	4,12136,28405,6339
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13225	4,12139,56807,0722
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13226	4,12142,85183,6796
	3,28351,7802
13227	4,12146,13535,4598
	3,28326,9568
13228	4,12149,41862,4166
	3,28302,1372
13229	4,12152,70164,5538
	3,28277,3212
13230	4,12155,98441,8750
	3,28252,5091
13231	4,12159,26694,3841
	3,28227,7006
13232	4,12162,54922,0847
	3,28202,8960
13233	4,12165,83124,9807
	3,28178,0951
13234	4,12169,11303,0758
	3,28153,2979
13235	4,12172,39456,3737
	3,28128,5045
13236	4,12175,67584,8782
	3,28103,7148
13237	4,12178,95688,5930
	3,28078,9289
13238	4,12182,23767,5219
	3,28054,1467
13239	4,12185,51821,6686
	3,28029,3683
13240	4,12188,79851,0369
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13241	4,12192,07855,6305
	3,27979,8226
13242	4,12195,35835,4531
	3,27955,0554
13243	4,12198,63790,5085
	3,27930,2919
13244	4,12201,91720,8004
	3,27905,5322
13245	4,12205,19626,3326
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13246	4,12208,47507,1088
	3,27856,0239
13247	4,12211,75363,1327
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13248	4,12215,03194,4081
	3,27806,5306
13249	4,12218,31000,9387
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13250	4,12221,58782,7283
	3,27757,0523
13251	4,12224,86539,7806
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13252	4,12228,14272,0993
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13253	4,12231,41979,6882
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	3,27608,7068
13257	4,12244,52562,8197
	3,27583,9955
13258	4,12247,80146,8152
	3,27559,2881
13259	4,12251,07706,1033
	3,27534,5843
13260	4,12254,35240,6876
	3,27509,8843
13261	4,12257,62750,5719
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13262	4,12260,90235,7599
	3,27460,4955
13263	4,12264,17696,2554
	3,27435,8066
13264	4,12267,45132,0620
	3,27411,1215
13265	4,12270,72543,1835
	3,27386,4401
13266	4,12273,99929,6236
	3,27361,7624
13267	4,12277,27291,3860
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13267	4,12277,27291,3860
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13268	4,12280,54628,4745
	3,27312,4182
13269	4,12283,81940,8927
	3,27287,7517
13270	4,12287,09228,6444
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13271	4,12290,36491,7333
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13272	4,12293,63730,1631
	3,27213,7744
13273	4,12296,90943,9375
	3,27189,1228
13274	4,12300,18133,0603
	3,27164,4748
13275	4,12303,45297,5351
	3,27139,8306
13276	4,12306,72437,3657
	3,27115,1900
13277	4,12309,99552,5557
	3,27090,5532
13278	4,12313,26643,1089
	3,27065,9202
13279	4,12316,53709,0291
	3,27041,2908
13280	4,12319,80750,3199
	3,27016,6651
13281	4,12323,07766,9850
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13283	4,12329,61726,4531
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13284	4,12332,88669,2634
	3,26918,1995
13285	4,12336,15587,4629
	3,26893,5924
13286	4,12339,42481,0553
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13287	4,12342,69350,0442
	3,26844,3892
13288	4,12345,96194,4334
	3,26819,7931
13289	4,12349,23014,2265
	3,26795,2008
13290	4,12352,49809,4273
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13291	4,12355,76580,0395
	3,26746,0272
13292	4,12359,03326,0667
	3,26721,4460
13293	4,12362,30047,5127
	3,26696,8685
13294	4,12365,56744,3812
	3,26672,2947
13295	4,12368,83416,6759
	3,26647,7245
13296	4,12372,10064,4004
	3,26623,1581
13297	4,12375,36687,5585
	3,26598,5953
13298	4,12378,63286,1538
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13299	4,12381,89860,1900
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13304	4,12398,22362,1147 3,26426,7594
13305	4,12401,48788,8741 3,26402,2262
13306	4,12404,75191,1003 3,26377,6967
13307	4,12408,01568,7970 3,26353,1709
13308	4,12411,27921,9679 3,26328,6487
13309	4,12414,54250,6166 3,26304,1302
13310	4,12417,80554,7468 3,26279,6154
13311	4,12421,06834,3622 3,26255,1043
13312	4,12424,33089,4665 3,26230,5969
13313	4,12427,59320,0634 3,26206,0931
13314	4,12430,85526,1565 3,26181,5931
13315	4,12434,11707,7496 3,26157,0967
13316	4,12437,37864,8463 3,26132,6040
13317	4,12440,63997,4503 3,26108,1150
13318	4,12443,90105,5653 3,26083,6296
13319	4,12447,16189,1949 3,26059,1479
13320	4,12450,42248,3428 3,26034,6700
13321	4,12453,68283,0128 3,26010,1956
13322	4,12456,94293,2084 3,25985,7250
13323	4,12460,20278,9334 3,25961,2580
13324	4,12463,46240,1914 3,25936,7947
13325	4,12466,72176,9861 3,25912,3351
13326	4,12469,98089,3212 3,25887,8791
13327	4,12473,23977,2003 3,25863,4268
13328	4,12476,49840,6271 3,25838,9782
13329	4,12479,75679,6053 3,25814,5333
13330	4,12483,01494,1386 3,25790,0920
13331	4,12486,27284,2306 3,25765,6543
13332	4,12489,53049,8849 3,25741,2204
13333	4,12492,78791,1053 3,25716,7901
13334	4,12496,04507,8954 3,25692,3635

Num. absolut.	Logarithmi.
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13336	4,12502,55868,1995 3,25643,5212
13337	4,12505,81511,7207 3,25619,1056
13338	4,12509,07130,8263 3,25594,6937
13339	4,12512,32725,5200 3,25570,2853
13340	4,12515,58295,8053 3,25545,8807
13341	4,12518,83841,6860 3,25521,4797
13342	4,12522,09363,1657 3,25497,0823
13343	4,12525,34860,2480 3,25472,6887
13344	4,12528,60332,9367 3,25448,2986
13345	4,12531,85781,2353 3,25423,9123
13346	4,12535,11205,1476 3,25399,5295
13347	4,12538,36604,6771 3,25375,1505
13348	4,12541,61979,8276 3,25350,7751
13349	4,12544,87330,6027 3,25326,4033
13350	4,12548,12657,0060 3,25302,0352
13351	4,12551,37959,0412 3,25277,6708
13352	4,12554,63236,7120 3,25253,3099
13353	4,12557,88490,0219 3,25228,9528
13354	4,12561,13718,9747 3,25204,5993
13355	4,12564,38923,5740 3,25180,2494
13356	4,12567,64103,8234 3,25155,9032
13357	4,12570,89259,7266 3,25131,5606
13358	4,12574,14391,2872 3,25107,2217
13359	4,12577,39498,5089 3,25082,8864
13360	4,12580,64581,3953 3,25058,5548
13361	4,12583,89639,9501 3,25034,2268
13362	4,12587,14674,1769 3,25009,9024
13363	4,12590,39684,0793 3,24985,5817
13364	4,12593,64669,6610 3,24961,2646
13365	4,12596,89630,9256 3,24936,9512
13366	4,12600,14567,8768 3,24912,6414
13367	4,12603,39480,5182 3,24888,3352

Num. absolut.	Logarithmi.
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13370	4,12613,14072,6199 3,24815,4385
13371	4,12616,38888,0584 3,24791,1469
13372	4,12619,63679,2053 3,24766,8589
13373	4,12622,88446,0642 3,24742,5746
13374	4,12626,13188,6388 3,24718,2939
13375	4,12629,37906,9327 3,24694,0167
13376	4,12632,62600,9494 3,24669,7433
13377	4,12635,87270,6927 3,24645,4735
13378	4,12639,11916,1662 3,24621,2072
13379	4,12642,36537,3734 3,24596,9447
13380	4,12645,61134,3181 3,24572,6857
13381	4,12648,85707,0038 3,24548,4303
13382	4,12652,10255,4341 3,24524,1787
13383	4,12655,34779,6128 3,24499,9306
13384	4,12658,59279,5434 3,24475,6861
13385	4,12661,83755,2295 3,24451,4453
13386	4,12665,08206,6748 3,24427,2081
13387	4,12668,32633,8829 3,24402,9745
13388	4,12671,57036,8574 3,24378,7445
13389	4,12674,81415,6019 3,24354,5182
13390	4,12678,05770,1201 3,24330,2955
13391	4,12681,30100,4156 3,24306,0763
13392	4,12684,54406,4919 3,24281,8608
13393	4,12687,78688,3527 3,24257,6489
13394	4,12691,02946,0016 3,24233,4407
13395	4,12694,27179,4423 3,24209,2360
13396	4,12697,51388,6783 3,24185,0350
13397	4,12700,75573,7133 3,24160,8376
13398	4,12703,99734,5509 3,24136,6437
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13403	4,12720,20175,9035
	3,24015,7288
13404	4,12723,44191,6323
	3,23991,5567
13405	4,12726,68183,1890
	3,23967,3881
13406	4,12729,92150,5771
	3,23943,2231
13407	4,12733,16093,8002
	3,23919,0618
13408	4,12736,40012,8620
	3,23894,9041
13409	4,12739,63907,7661
	3,23870,7499
13410	4,12742,87778,5160
	3,23846,5994
13411	4,12746,11625,1154
	3,23822,4524
13412	4,12749,35447,5678
	3,23798,3091
13413	4,12752,59245,8769
	3,23774,1694
13414	4,12755,83020,0463
	3,23750,0333
13415	4,12759,06770,0796
	3,23725,9007
13416	4,12762,30495,9803
	3,23701,7718
13417	4,12765,54197,7521
	3,23677,6465
13418	4,12768,77875,3986
	3,23653,5247
13419	4,12772,01528,9233
	3,23629,4065
13420	4,12775,25158,3298
	3,23605,2920
13421	4,12778,48763,6218
	3,23581,1810
13422	4,12781,72344,8028
	3,23557,0736
13423	4,12784,95901,8764
	3,23532,9698
13424	4,12788,19434,8462
	3,23508,8697
13425	4,12791,42943,7159
	3,23484,7731
13426	4,12794,66428,4890
	3,23460,6801
13427	4,12797,89889,1691
	3,23436,5906
13428	4,12801,13325,7597
	3,23412,5048
13429	4,12804,36738,2645
	3,23388,4226
13430	4,12807,60126,6871
	3,23364,3439
13431	4,12810,83491,0310
	3,23340,2688
13432	4,12814,06831,2998
	3,23316,1974
13433	4,12817,30147,4972
	3,23292,1295
13434	4,12820,53439,6267
	3,23268,0651
13435	4,12823,76707,6918
	3,23244,0044
13436	4,12826,99951,6962
	3,23219,9472
13437	4,12830,23171,6434
	3,23195,8937
13438	4,12833,46367,5371
	3,23171,8437
13439	4,12836,69539,3808
	3,23147,7972
13440	4,12839,92687,1780
	3,23123,7544
13441	4,12843,15810,9324
	3,23099,7151
13442	4,12846,38910,6475
	3,23075,6795
13443	4,12849,61986,3270
	3,23051,6474
13444	4,12852,85037,9744
	3,23027,6188
13445	4,12856,08065,5932
	3,23003,5939
13446	4,12859,31069,1871
	3,22979,5725
13447	4,12862,54048,7596
	3,22955,5546
13448	4,12865,77004,3142
	3,22931,5404
13449	4,12868,99935,8546
	3,22907,5297
13450	4,12872,22843,3843
	3,22883,5226
13451	4,12875,45726,9069
	3,22859,5191
13452	4,12878,68586,4260
	3,22835,5191
13453	4,12881,91421,9451
	3,22811,5228
13454	4,12885,14233,4679
	3,22787,5299
13455	4,12888,37020,9978
	3,22763,5406
13456	4,12891,59784,5384
	3,22739,5550
13457	4,12894,82524,0934
	3,22715,5728
13458	4,12898,05239,6662
	3,22691,5942
13459	4,12901,27931,2604
	3,22667,6192
13460	4,12904,50598,8796
	3,22643,6478
13461	4,12907,73242,5274
	3,22619,6799
13462	4,12910,95862,2073
	3,22595,7156
13463	4,12914,18457,9229
	3,22571,7548
13464	4,12917,41029,6777
	3,22547,7976
13465	4,12920,63577,4753
	3,22523,8440
13466	4,12923,86101,3193
	3,22499,8939
13467	4,12927,08601,2132
	3,22475,9473
13468	4,12930,31077,1605
	3,22452,0044
13469	4,12933,53529,1649
	3,22428,0650
13470	4,12936,75957,2299
	3,22404,1291
13471	4,12939,98361,3590
	3,22380,1968
13472	4,12943,20741,5558
	3,22356,2680
13473	4,12946,43097,8238
	3,22332,3428
13474	4,12949,65430,1666
	3,22308,4212
13475	4,12952,87738,5878
	3,22284,5031
13476	4,12956,10023,0909
	3,22260,5885
13477	4,12959,32283,6794
	3,22236,6775
13478	4,12962,54520,3569
	3,22212,7700
13479	4,12965,76733,1269
	3,22188,8661
13480	4,12968,98921,9930
	3,22164,9658
13481	4,12972,21086,9588
	3,22141,0689
13482	4,12975,43228,0277
	3,22117,1757
13483	4,12978,65345,2034
	3,22093,2859
13484	4,12981,87438,4893
	3,22069,3998
13485	4,12985,09507,8891
	3,22045,5171
13486	4,12988,31553,4062
	3,22021,6380
13487	4,12991,53575,0442
	3,21997,7625
13488	4,12994,75572,8067
	3,21973,8904
13489	4,12997,97546,6971
	3,21950,0220
13490	4,13001,19496,7191
	3,21926,1570
13491	4,13004,41422,8761
	3,21902,2956
13492	4,13007,63325,1717
	3,21878,4377
13493	4,13010,85203,6094
	3,21854,5834
13494	4,13014,07058,1928
	3,21830,7326
13495	4,13017,28888,9254
	3,21806,8853
13496	4,13020,50695,8107
	3,21783,0416
13497	4,13023,72478,8523
	3,21759,2014
13498	4,13026,94238,0537
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13499	4,13030,15973,4185
	3,21711,5316
13500	4,13033,37684,9501
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	3,21616,2344
13504	4,13046,24292,8158
	3,21592,4189
13505	4,13049,45885,2347
	3,21568,6069
13506	4,13052,67453,8416
	3,21544,7985
13507	4,13055,88998,6401
	3,21520,9936
13508	4,13059,10519,6337
	3,21497,1922
13509	4,13062,32016,8259
	3,21473,3944
13510	4,13065,53490,2203
	3,21449,6000
13511	4,13068,74939,8203
	3,21425,8092
13512	4,13071,96365,6295
	3,21402,0219
13513	4,13075,17767,6514
	3,21378,2381
13514	4,13078,39145,8895
	3,21354,4579
13515	4,13081,60500,3474
	3,21330,6812
13516	4,13084,81831,0286
	3,21306,9079
13517	4,13088,03137,9365
	3,21283,1382
13518	4,13091,24421,0747
	3,21259,3721
13519	4,13094,45680,4468
	3,21235,6094
13520	4,13097,66916,0562
	3,21211,8502
13521	4,13100,88127,9064
	3,21188,0946
13522	4,13104,09316,0010
	3,21164,3425
13523	4,13107,30480,3435
	3,21140,5938
13524	4,13110,51620,9373
	3,21116,8488
13525	4,13113,72737,7861
	3,21093,1071
13526	4,13116,93830,8932
	3,21069,3691
13527	4,13120,14900,2623
	3,21045,6345
13528	4,13123,35945,8968
	3,21021,9035
13529	4,13126,56967,8003
	3,20998,1759
13530	4,13129,77965,9762
	3,20974,4519
13531	4,13132,98940,4281
	3,20950,7313
13532	4,13136,19891,1594
	3,20927,0143
13533	4,13139,40818,1737
	3,20903,3008
13534	4,13142,61721,4745
	3,20879,5908
13535	4,13145,82601,0653
	3,20855,8842
13536	4,13149,03456,9495
	3,20832,1812
13537	4,13152,24289,1307
	3,20808,4817
13538	4,13155,45097,6124
	3,20784,7857
13539	4,13158,65882,3981
	3,20761,0931
13540	4,13161,86643,4912
	3,20737,4042
13541	4,13165,07380,8954
	3,20713,7186
13542	4,13168,28094,6140
	3,20690,0366
13543	4,13171,48784,6506
	3,20666,3581
13544	4,13174,69451,0087
	3,20642,6831
13545	4,13177,90093,6918
	3,20619,0115
13546	4,13181,10712,7033
	3,20595,3435
13547	4,13184,31308,0468
	3,20571,6790
13548	4,13187,51879,7258
	3,20548,0180
13549	4,13190,72427,7438
	3,20524,3604
13550	4,13193,92952,1042
	3,20500,7063
13551	4,13197,13452,8105
	3,20477,0557
13552	4,13200,33929,8662
	3,20453,4087
13553	4,13203,54383,2749
	3,20429,7651
13554	4,13206,74813,0400
	3,20406,1250
13555	4,13209,95219,1650
	3,20382,4884
13556	4,13213,15601,6534
	3,20358,8552
13557	4,13216,35960,5086
	3,20335,2256
13558	4,13219,56295,7342
	3,20311,5994
13559	4,13222,76607,3336
	3,20287,9768
13560	4,13225,96895,3104
	3,20264,3576
13561	4,13229,17159,6680
	3,20240,7419
13562	4,13232,37400,4099
	3,20217,1296
13563	4,13235,57617,5395
	3,20193,5209
13564	4,13238,77811,0604
	3,20169,9157
13565	4,13241,97980,9761
	3,20146,3139
13566	4,13245,18127,2900
	3,20122,7156
13567	4,13248,38250,0056
	3,20099,1207
13567	4,13248,38250,0056
	3,20099,1207
13568	4,13251,58349,1263
	3,20075,5294
13569	4,13254,78424,6557
	3,20051,9416
13570	4,13257,98476,5973
	3,20028,3572
13571	4,13261,18504,9545
	3,20004,7762
13572	4,13264,38509,7307
	3,19981,1988
13573	4,13267,58490,9295
	3,19957,6249
13574	4,13270,78448,5544
	3,19934,0544
13575	4,13273,98382,6088
	3,19910,4874
13576	4,13277,18293,0962
	3,19886,9238
13577	4,13280,38180,0200
	3,19863,3637
13578	4,13283,58043,3837
	3,19839,8071
13579	4,13286,77883,1908
	3,19816,2540
13580	4,13289,97699,4448
	3,19792,7043
13581	4,13293,17492,1491
	3,19769,1581
13582	4,13296,37261,3072
	3,19745,6154
13583	4,13299,57006,9226
	3,19722,0761
13584	4,13302,76728,9987
	3,19698,5404
13585	4,13305,96427,5391
	3,19675,0080
13586	4,13309,16102,5471
	3,19651,4791
13587	4,13312,35754,0262
	3,19627,9537
13588	4,13315,55381,9799
	3,19604,4317
13589	4,13318,74986,4116
	3,19580,9133
13590	4,13321,94567,3249
	3,19557,3983
13591	4,13325,14124,7232
	3,19533,8867
13592	4,13328,33658,6099
	3,19510,3786
13593	4,13331,53168,9885
	3,19486,8739
13594	4,13334,72655,8624
	3,19463,3728
13595	4,13337,92119,2352
	3,19439,8750
13596	4,13341,11559,1102
	3,19416,3808
13597	4,13344,30975,4910
	3,19392,8899
13598	4,13347,50368,3809
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13599	4,13350,69737,7835
	3,19345,9187
13600	4,13353,89083,7022
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13603	4,13363,46980,5893
	3,19252,0176
13604	4,13366,66232,6069
	3,19228,5509
13605	4,13369,85461,1578
	3,19205,0877
13606	4,13373,04666,2455
	3,19181,6280
13607	4,13376,23847,8735
	3,19158,1717
13608	4,13379,43006,0452
	3,19134,7188
13609	4,13382,62140,7640
	3,19111,2694
13610	4,13385,81252,0334
	3,19087,8235
13611	4,13389,00339,8569
	3,19064,3809
13612	4,13392,19404,2378
	3,19040,9419
13613	4,13395,38445,1797
	3,19017,5062
13614	4,13398,57462,6859
	3,18994,0740
13615	4,13401,76456,7599
	3,18970,6453
13616	4,13404,95427,4052
	3,18947,2200
13617	4,13408,14374,6252
	3,18923,7981
13618	4,13411,33298,4233
	3,18900,3797
13619	4,13414,52198,8030
	3,18876,9647
13620	4,13417,71075,7677
	3,18853,5532
13621	4,13420,89929,3209
	3,18830,1450
13622	4,13424,08759,4659
	3,18806,7404
13623	4,13427,27566,2063
	3,18783,3391
13624	4,13430,46349,5454
	3,18759,9414
13625	4,13433,65109,4868
	3,18736,5470
13626	4,13436,83846,0338
	3,18713,1561
13627	4,13440,02559,1899
	3,18689,7685
13628	4,13443,21248,9584
	3,18666,3845
13629	4,13446,39915,3429
	3,18643,0039
13630	4,13449,58558,3468
	3,18619,6267
13631	4,13452,77177,9735
	3,18596,2529
13632	4,13455,95774,2264
	3,18572,8825
13633	4,13459,14347,1089
	3,18549,5156
13634	4,13462,32896,6245
	3,18526,1521
13635	4,13465,51422,7766
	3,18502,7920
13636	4,13468,69925,5686
	3,18479,4354
13637	4,13471,88405,0040
	3,18456,0822
13638	4,13475,06861,0862
	3,18432,7324
13639	4,13478,25293,8186
	3,18499,3861
13640	4,13481,43703,2047
	3,18386,0431
13641	4,13484,62089,2478
	3,18362,7036
13642	4,13487,80451,9514
	3,18339,3675
13643	4,13490,98791,3189
	3,18316,0348
13644	4,13494,17107,3537
	3,18292,7055
13645	4,13497,35400,0592
	3,18269,3797
13646	4,13500,53669,4389
	3,18246,0573
13647	4,13503,71915,4962
	3,18222,7383
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	3,18199,4227
13649	4,13510,08337,6572
	3,18176,1106
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	3,18152,8018
13651	4,13516,44666,5696
	3,18129,4965
13652	4,13519,62796,0661
	3,18106,1945
13653	4,13522,80902,2606
	3,18082,8960
13654	4,13525,98985,1566
	3,18059,6010
13655	4,13529,17044,7576
	3,18036,3092
13656	4,13532,35081,0668
	3,18013,0210
13657	4,13535,53094,0878
	3,17989,7361
13658	4,13538,71083,8239
	3,17966,4547
13659	4,13541,89050,2786
	3,17943,1766
13660	4,13545,06993,4552
	3,17919,9020
13661	4,13548,24913,3572
	3,17896,6307
13662	4,13551,42809,9879
	3,17873,3629
13663	4,13554,60683,3508
	3,17850,0985
13664	4,13557,78533,4493
	3,17826,8375
13665	4,13560,96360,2868
	3,17803,5799
13666	4,13564,14163,8667
	3,17780,3257
13667	4,13567,31944,1924
	3,17757,0749
13668	4,13570,49701,2673
	3,17733,8275
13669	4,13573,67435,0948
	3,17710,5831
13670	4,13576,85145,6783
	3,17687,3429
13671	4,13580,02832,0212
	3,17664,1057
13672	4,13583,20497,1269
	3,17640,8719
13673	4,13586,38137,9988
	3,17617,6414
13674	4,13589,55755,6402
	3,17594,4145
13675	4,13592,73350,0547
	3,17571,1909
13676	4,13595,90921,2456
	3,17547,9707
13677	4,13599,08469,2163
	3,17524,7539
13678	4,13602,25993,9702
	3,17501,5404
13679	4,13605,43495,5106
	3,17478,3304
13680	4,13608,60973,8410
	3,17455,1238
13681	4,13611,78428,9648
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	3,17362,3312
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	3,17339,1415
13686	4,13627,65356,6030
	3,17315,9552
13687	4,13630,82672,5582
	3,17292,7723
13688	4,13633,99965,3305
	3,17269,5928
13689	4,13637,17234,9233
	3,17246,4167
13690	4,13640,34481,3400
	3,17223,2439
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	3,17176,9086
13693	4,13649,86081,5671
	3,17153,7460
13694	4,13653,03235,3131
	3,17130,5868
13695	4,13656,20365,8999
	3,17107,4310
13696	4,13659,37473,3309
	3,17084,2785
13697	4,13662,54557,6094
	3,17061,1294
13698	4,13665,71618,7388
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13699	4,13668,88656,7226
	3,17014,8415
13700	4,13672,05671,5641
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13702	4,13678,39631,8337 3,16945,4348
13703	4,13681,56577,2685 3,16922,3061
13704	4,13684,73499,5746 3,16899,1806
13705	4,13687,90398,7552 3,16876,0586
13706	4,13691,07274,8138 3,16852,9399
13707	4,13694,24127,7537 3,16829,8246
13708	4,13697,40957,5783 3,16806,7127
13709	4,13700,57764,2910 3,16783,6042
13710	4,13703,74547,8952 3,16760,4990
13711	4,13706,91308,3942 3,16737,3972
13712	4,13710,08045,7914 3,16714,2987
13713	4,13713,24760,0901 3,16691,2036
13714	4,13716,41451,2937 3,16668,1119
13715	4,13719,58119,4056 3,16645,0236
13716	4,13722,74764,4292 3,16621,9386
13717	4,13725,91386,3678 3,16598,8570
13718	4,13729,07985,2248 3,16575,7787
13719	4,13732,24561,0035 3,16552,7039
13720	4,13735,41113,7074 3,16529,6324
13721	4,13738,57643,3398 3,16506,5642
13722	4,13741,74149,9040 3,16483,4994
13723	4,13744,90633,4034 3,16460,4380
13724	4,13748,07093,8414 3,16437,3799
13725	4,13751,23531,2213 3,16414,3252
13726	4,13754,39945,5465 3,16391,2739
13727	4,13757,56336,8204 3,16368,2259
13728	4,13760,72705,0463 3,16345,1812
13729	4,13763,89050,2275 3,16322,1400
13730	4,13767,05372,3675 3,16299,1020
13731	4,13770,21671,4695 3,16276,0675
13732	4,13773,37947,5370 3,16253,0363
13733	4,13776,54200,5733 3,16230,0084
13734	4,13779,70430,5817 3,16206,9840

Num. absolut.	Logarithmi.
13734	4,13779,70430,5817 3,16206,9840
13735	4,13782,86637,5657 3,16183,9628
13736	4,13786,02821,5285 3,16160,9450
13737	4,13789,18982,4735 3,16137,9306
13738	4,13792,35120,4041 3,16114,9195
13739	4,13795,51235,3236 3,16091,9117
13740	4,13798,67327,2353 3,16068,9073
13741	4,13801,83396,1426 3,16045,9063
13742	4,13804,99442,0489 3,16022,9086
13743	4,13808,15464,9575 3,15999,9142
13744	4,13811,31464,8717 3,15976,9232
13745	4,13814,47441,7949 3,15953,9356
13746	4,13817,63395,7305 3,15930,9512
13747	4,13820,79326,6817 3,15907,9702
13748	4,13823,95234,6519 3,15884,9926
13749	4,13827,11119,6445 3,15862,0183
13750	4,13830,26981,6628 3,15839,0474
13751	4,13833,42820,7102 3,15816,0798
13752	4,13836,58636,7900 3,15793,1155
13753	4,13839,74429,9055 3,15770,1545
13754	4,13842,90200,0600 3,15747,1970
13755	4,13846,05947,2570 3,15724,2427
13756	4,13849,21671,4997 3,15701,2918
13757	4,13852,37372,7915 3,15678,3443
13758	4,13855,53051,1358 3,15655,4000
13759	4,13858,68706,5358 3,15632,4591
13760	4,13861,84338,9949 3,15609,5215
13761	4,13864,99948,5164 3,15586,5873
13762	4,13868,15535,1037 3,15563,6564
13763	4,13871,31098,7601 3,15540,7288
13764	4,13874,46639,4889 3,15517,8046
13765	4,13877,62157,2935 3,15494,8836
13766	4,13880,77652,1771 3,15471,9661
13767	4,13883,93124,1432 3,15449,0518

Num. absolut.	Logarithmi.
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13768	4,13887,08573,1950 3,15426,1409
13769	4,13890,23999,3359 3,15403,2333
13770	4,13893,39402,5692 3,15380,3290
13771	4,13896,54782,8982 3,15357,4281
13772	4,13899,70140,3263 3,15334,5305
13773	4,13902,85474,8568 3,15311,6362
13774	4,13906,00786,4930 3,15288,7452
13775	4,13909,16075,2382 3,15265,8576
13776	4,13912,31341,0958 3,15242,9733
13777	4,13915,46584,0691 3,15220,0922
13778	4,13918,61804,1613 3,15197,2146
13779	4,13921,77001,3759 3,15174,3402
13780	4,13924,92175,7161 3,15151,4692
13781	4,13928,07327,1853 3,15128,6015
13782	4,13931,22455,7868 3,15105,7370
13783	4,13934,37561,5238 3,15082,8760
13784	4,13937,52644,3998 3,15060,0182
13785	4,13940,67704,4180 3,15037,1637
13786	4,13943,82741,5817 3,15014,3126
13787	4,13946,97755,8943 3,14991,4648
13788	4,13950,12747,3591 3,14968,6203
13789	4,13953,27715,9794 3,14945,7791
13790	4,13956,42661,7585 3,14922,9412
13791	4,13959,57584,6997 3,14900,1067
13792	4,13962,72484,8064 3,14877,2754
13793	4,13965,87362,0818 3,14854,4474
13794	4,13969,02216,5292 3,14831,6228
13795	4,13972,17048,1520 3,14808,8015
13796	4,13975,31856,9535 3,14785,9835
13797	4,13978,46642,9370 3,14763,1687
13798	4,13981,61406,1058 3,14740,3574
13799	4,13984,76146,4632 3,14717,5492
13800	4,13987,90864,0124 3,14694,7444

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13803	4,13997,34879,8447 3,14626,3499
13804	4,14000,49506,1946 3,14603,5583
13805	4,14003,64109,7529 3,14580,7700
13806	4,14006,78690,5229 3,14557,9851
13807	4,14009,93248,5080 3,14535,2034
13808	4,14013,07783,7114 3,14512,4250
13809	4,14016,22296,1364 3,14489,6499
13810	4,14019,36785,7863 3,14466,8781
13811	4,14022,51252,6644 3,14444,1097
13812	4,14025,65696,7741 3,14421,3445
13813	4,14028,80118,1185 3,14398,5826
13814	4,14031,94516,7012 3,14375,8240
13815	4,14035,08892,5252 3,14353,0687
13816	4,14038,23245,5939 3,14330,3168
13817	4,14041,37575,9107 3,14307,5680
13818	4,14044,51883,4787 3,14284,8226
13819	4,14047,66168,3013 3,14262,0805
13820	4,14050,80430,3818 3,14239,3416
13821	4,14053,94669,7234 3,14216,6061
13822	4,14057,08886,3295 3,14193,8738
13823	4,14060,23080,2033 3,14171,1449
13824	4,14063,37251,3482 3,14148,4192
13825	4,14066,51399,7674 3,14125,6968
13826	4,14069,65525,4642 3,14102,9777
13827	4,14072,79628,4419 3,14080,2618
13828	4,14075,93708,7037 3,14057,5493
13829	4,14079,07766,2530 3,14034,8401
13830	4,14082,21801,0931 3,14012,1341
13831	4,14085,35813,2272 3,13989,4315
13832	4,14088,49802,6587 3,13966,7320
13833	4,14091,63769,3907 3,13944,0359
13834	4,14094,77713,4266 3,13921,3431
13835	4,14097,91634,7697 3,13898,6535
13836	4,14101,05533,4132 3,13875,9673
13837	4,14104,19409,3905 3,13853,2843
13838	4,14107,33262,6748 3,13830,6045
13839	4,14110,47093,2793 3,13807,9281
13840	4,14113,60901,2074 3,13785,2549
13841	4,14116,74686,4623 3,13762,5851
13842	4,14119,88449,0474 3,13739,9184
13843	4,14123,02188,9658 3,13717,2551
13844	4,14126,15906,2209 3,13694,5950
13845	4,14129,29600,8159 3,13671,9282
13846	4,14132,43272,7541 3,13649,2847
13847	4,14135,56922,0388 3,13626,6345
13848	4,14138,70548,6733 3,13603,9875
13849	4,14141,84152,6608 3,13581,3438
13850	4,14144,97734,0046 3,13558,7034
13851	4,14148,11292,7080 3,13536,0662
13852	4,14151,24828,7742 3,13513,4323
13853	4,14154,38342,2065 3,13490,8017
13854	4,14157,51833,0082 3,13468,1743
13855	4,14160,65301,1825 3,13445,5502
13856	4,14163,78746,7327 3,13422,9294
13857	4,14166,92169,6621 3,13400,3118
13858	4,14170,05569,9739 3,13377,6975
13859	4,14173,18947,6714 3,13355,0865
13860	4,14176,32302,7579 3,13332,4787
13861	4,14179,45635,2366 3,13309,8742
13862	4,14182,58945,1108 3,13287,2729
13863	4,14185,72232,3837 3,13264,6749
13864	4,14188,85497,0586 3,13242,0802
13865	4,14191,98739,1388 3,13219,4887
13866	4,14195,11958,6275 3,13196,9005
13867	4,14198,25155,5280 3,13174,3156
13868	4,14201,38329,8436 3,13151,7339
13869	4,14204,51481,5775 3,13129,1554
13870	4,14207,64610,7329 3,13106,5802
13871	4,14210,77717,3131 3,13084,0083
13872	4,14213,90801,3214 3,13061,4396
13873	4,14217,03862,7610 3,13038,8742
13874	4,14220,16901,6352 3,13016,3120
13875	4,14223,29917,9472 3,12993,7531
13876	4,14226,42911,7003 3,12971,1974
13877	4,14229,55882,8977 3,12948,6450
13878	4,14232,68831,5427 3,12926,0958
13879	4,14235,81757,6385 3,12903,5499
13880	4,14238,94661,1884 3,12881,0072
13881	4,14242,07542,1956 3,12858,4678
13882	4,14245,20400,6634 3,12835,9317
13883	4,14248,33236,5951 3,12813,3987
1384	4,14251,46049,9938 3,12790,8690
13885	4,14254,58840,8628 3,12768,3426
13886	4,14257,71609,2054 3,12745,8194
13887	4,14260,84355,0248 3,12723,2994
13888	4,14263,97078,3242 3,12700,7827
13889	4,14267,09779,1069 3,12678,2693
13890	4,14270,22457,3762 3,12655,7590
13891	4,14273,35113,1352 3,12633,2521
13892	4,14276,47746,3873 3,12610,7483
13893	4,14279,60357,1356 3,12588,2478
13894	4,14282,72945,3834 3,12565,7505
13895	4,14285,85511,1339 3,12543,2565
13896	4,14288,98054,3904 3,12520,7657
13897	4,14292,10575,1561 3,12498,2782
13898	4,14295,23073,4343 3,12475,7939
13899	4,14298,35549,2282 3,12453,3128
13900	4,14301,48002,5410 3,12430,8349

Num. absolut.	Logarithmi.
13901	4,14304,60433,3759
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13902	4,14307,72841,7362
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13903	4,14310,85227,6251
	3,12363,4208
13904	4,14313,97591,0459
	3,12340,9559
13905	4,14317,09932,0018
	3,12318,4942
13906	4,14320,22250,4960
	3,12296,0357
13907	4,14323,34546,5317
	3,12273,5805
13908	4,14326,46820,1122
	3,12251,1285
13909	4,14329,59071,2407
	3,12228,6798
13910	4,14332,71299,9205
	3,12206,2342
13911	4,14335,83506,1547
	3,12183,7919
13912	4,14338,95689,9466
	3,12161,3528
13913	4,14342,07851,2994
	3,12138,9170
13914	4,14345,19990,2164
	3,12116,4843
13915	4,14348,32106,7007
	3,12094,0549
13916	4,14351,44200,7556
	3,12071,6287
13917	4,14354,56272,3843
	3,12049,2057
13918	4,14357,68321,5900
	3,12026,7860
13919	4,14360,80348,3760
	3,12004,3695
13920	4,14363,92352,7455
	3,11981,9561
13921	4,14367,04334,7016
	3,11959,5461
13922	4,14370,16294,2477
	3,11937,1392
13923	4,14373,28231,3869
	3,11914,7356
13924	4,14376,40146,1225
	3,11892,3352
13925	4,14379,52038,4577
	3,11869,9380
13926	4,14382,63908,3957
	3,11847,5439
13927	4,14385,75755,9396
	3,11825,1532
13928	4,14388,87581,0928
	3,11802,7656
13929	4,14391,99383,8584
	3,11780,3813
13930	4,14395,11164,2397
	3,11758,0002
13931	4,14398,22922,2399
	3,11735,6222
13932	4,14401,34657,8621
	3,11713,2475
13933	4,14404,46371,1096
	3,11690,8760
13934	4,14407,58061,9856
	3,11668,5077
13935	4,14410,69730,4933
	3,11646,1426
13936	4,14413,81376,6359
	3,11623,7808
13937	4,14416,93000,4167
	3,11601,4221
13938	4,14420,04601,8388
	3,11579,0667
13939	4,14423,16180,9055
	3,11556,7144
13940	4,14426,27737,6199
	3,11534,3654
13941	4,14429,39271,9853
	3,11512,0196
13942	4,14432,50784,0049
	3,11489,6770
13943	4,14435,62273,6819
	3,11467,3375
13944	4,14438,73741,0194
	3,11445,0013
13945	4,14441,85186,0207
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13946	4,14444,96608,6890
	3,11400,3385
13947	4,14448,08009,0275
	3,11378,0119
13948	4,14451,19387,0394
	3,11355,6885
13949	4,14454,30742,7279
	3,11333,3683
13950	4,14457,42076,0962
	3,11311,0513
13951	4,14460,53387,1475
	3,11288,7375
13952	4,14463,64675,8850
	3,11266,4269
13953	4,14466,75942,3119
	3,11244,1195
13954	4,14469,87186,4314
	3,11221,8152
13955	4,14472,98408,2466
	3,11199,5142
13956	4,14476,09607,7608
	3,11177,2164
13957	4,14479,20784,9772
	3,11154,9218
13958	4,14482,31939,8990
	3,11132,6304
13959	4,14485,43072,5294
	3,11110,3421
13960	4,14488,54182,8715
	3,11088,0571
13961	4,14491,65270,9286
	3,11065,7752
13962	4,14494,76336,7038
	3,11043,4966
13963	4,14497,87380,2004
	3,11021,2211
13964	4,14500,98401,4215
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13965	4,14504,09400,3703
	3,10976,6797
13966	4,14507,20377,0500
	3,10954,4139
13967	4,14510,31331,4639
	3,10932,1511
13968	4,14513,42263,6150
	3,10909,8916
13969	4,14516,53173,5066
	3,10887,6353
13970	4,14519,64061,1419
	3,10865,3821
13971	4,14522,74926,5240
	3,10843,1322
13972	4,14525,85769,6562
	3,10820,8854
13973	4,14528,96590,5416
	3,10798,6418
13974	4,14532,07389,1834
	3,10776,4013
13975	4,14535,18165,5847
	3,10754,1641
13976	4,14538,28919,7488
	3,10731,9301
13977	4,14541,39651,6789
	3,10709,6992
13978	4,14544,50361,3781
	3,10687,4717
13979	4,14547,61048,8497
	3,10665,2470
13980	4,14550,71714,0967
	3,10643,0257
13981	4,14553,82357,1224
	3,10620,8075
13982	4,14556,92977,9299
	3,10598,5926
13983	4,14560,03576,5225
	3,10576,3808
13984	4,14563,14152,9033
	3,10554,1722
13985	4,14566,24707,0755
	3,10531,9667
13986	4,14569,35239,0422
	3,10509,7645
13987	4,14572,45748,8067
	3,10487,5654
13988	4,14575,56236,3721
	3,10465,3695
13989	4,14578,66701,7416
	3,10443,1767
13990	4,14581,77144,9183
	3,10420,9871
13991	4,14584,87565,9054
	3,10398,8008
13992	4,14587,97964,7062
	3,10376,6175
13993	4,14591,08341,3237
	3,10354,4375
13994	4,14594,18695,7612
	3,10332,2606
13995	4,14597,29028,0218
	3,10310,0869
13996	4,14600,39338,1087
	3,10287,9163
13997	4,14603,49626,0250
	3,10265,7490
13998	4,14606,59891,7740
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14003	4,14622, 10888,1188
	3,10132,8112
14004	4,14625, 21020,9300
	3,10110,6659
14005	4,14628,31131,5959
	3,10088,5239
14006	4,14631,41220,1198
	3,10066,3850
14007	4,14634,51286,5048
	3,10044,2492
14008	4,14637,61330,7540
	3,10022,1166
14009	4,14640,71352,8706
	3,09999,9842
14010	4,14643,81352,8578
	3,09977,8609
14011	4,14646,91330,7187
	3,09955,7379
14012	4,14650,01286,4566
	3,09933,6179
14013	4,14653, 11220,0745
	3,09911,5011
14014	4,14656,21131,5756
	3,09889,3875
14015	4,14659,31020,9631
	3,09867,2770
14016	4,14662,40888,2401
	3,09845,1697
14017	4,14665,50733,4098
	3,09823,0655
14018	4,14668,60556,4753
	3,09800,9645
14019	4,14671,70357,4398
	3,09778,8666
14020	4,14674,80136,3064
	3,09756,7719
14021	4,14677,89893,0783
	3,09734,6804
14022	4,14680,99627,7587
	3,09712,5920
14023	4,14684,09340,3507
	3,09690,5067
14024	4,14687,19030,8574
	3,09668,4246
14025	4,14690,28699,2820
	3,09646,3456
14026	4,14693,38345,6276
	3,09624,2698
14027	4,14696,47969,8974
	3,09602,1972
14028	4,14699,57572,0946
	3,09580,1277
14029	4,14702,67152,2223
	3,09558,0613
14030	4,14705,76710,2836
	3,09535,9981
14031	4,14708,86246,2817
	3,09513,9380
14032	4,14711,95760,2197
	3,09491,8810
14033	4,14715,05252,1007
	3,09469,8273
14034	4,14718,14721,9280
	3,09447,7766
14035	4,14721,24169,7046
	3,09425,7291
14036	4,14724,33595,4337
	3,09403,6848
14037	4,14727,42999,1184
	3,09381,6435
14038	4,14730,52380,7620
	3,09359,6054
14039	4,14733,61740,3674
	3,09337,5705
14040	4,14736,71077,9379
	3,09315,5387
14041	4,14739,80393,4766
	3,09293,5100
14042	4,14742,89686,9866
	3,09271,4845
14043	4,14745,98958,4711
	3,09249,4621
14044	4,14749,08207,9332
	3,09227,4428
14045	4,14752,17435,3760
	3,09205,4267
14046	4,14755,26640,8027
	3,09183,4137
14047	4,14758,35824,2164
	3,09161,4039
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	3,09139,3971
14049	4,14764,54125,0174
	3,09117,3936
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	3,09095,3931
14051	4,14770,72337,8041
	3,09073,3958
14052	4,14773,81411,1999
	3,09051,4016
14053	4,14776,90462,6015
	3,09029,4105
14054	4,14779,99492,0120
	3,09007,4226
14055	4,14783,08499,4346
	3,08985,4378
14056	4,14786,17484,8724
	3,08963,4561
14057	4,14789,26448,3285
	3,08941,4776
14058	4,14792,35389,8061
	3,08919,5022
14059	4,14795,44309,3083
	3,08897,5298
14060	4,14798,53206,8381
	3,08875,5607
14061	4,14801,62082,3988
	3,08853,5946
14062	4,14804,70935,9934
	3,08831,6317
14063	4,14807,79767,6251
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14064	4,14810,88577,2970
	3,08787,7152
14065	4,14813,97365,0122
	3,08765,7617
14066	4,14817,06130,7739
	3,08743,8112
14067	4,14820,14874,5851
	3,08721,8639
14068	4,14823,23596,4490
	3,08699,9197
14069	4,14826,32296,3667
	3,08677,9787
14070	4,14829,40974,3474
	3,08656,0407
14071	4,14832,49630,3881
	3,08634,1059
14072	4,14835,58264,4940
	3,08612,1742
14073	4,14838,66876,6682
	3,08590,2455
14074	4,14841,75466,9137
	3,08568,3201
14075	4,14844,84035,2338
	3,08546,3977
14076	4,14847,92581,6315
	3,08524,4784
14077	4,14851,01106,1099
	3,08502,5623
14078	4,14854,09608,6722
	3,08480,6493
14079	4,14857,18089,3215
	3,08458,7394
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	3,08436,8326
14081	4,14863,34984,8935
	3,08414,9289
14082	4,14866,43399,8224
	3,08393,0283
14083	4,14869,51792,8507
	3,08371,1308
14084	4,14872,60163,9815
	3,08349,2364
14085	4,14875,68513,2179
	3,08327,3452
14086	4,14878,76840,5631
	3,08305,4571
14087	4,14881,85146,0202
	3,08283,5720
14088	4,14884,93429,5922
	3,08261,6901
14089	4,14888,01691,2823
	3,08239,8112
14090	4,14891,09931,0935
	3,08217,9355
14091	4,14894,18149,0290
	3,08196,0630
14092	4,14897,26345,0921
	3,08174,1934
14093	4,14900,34519,2855
	3,08152,3270
14094	4,14903,42671,6125
	3,08130,4637
14095	4,14906,50802,0762
	3,08108,6035
14096	4,14909,58910,6797
	3,08086,7464
14097	4,14912,66997,4261
	3,08064,8925
14098	4,14915,75062,3186
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14099	4,14918,83105,3601
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14100	4,14921,91126,5538
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14103	4,14931,15059,0792
	3,07933,8335
14104	4,14934,22992,9127
	3,07912,0012
14105	4,14937,30904,9139
	3,07890,1720
14106	4,14940,38795,0859
	3,07868,3458
14107	4,14943,46663,4317
	3,07846,5228
14108	4,14946,54509,9545
	3,07824,7029
14109	4,14949,62334,6574
	3,07802,8861
14110	4,14952,70137,5435
	3,07781,0723
14111	4,14955,77918,6158
	3,07759,2617
14112	4,14958,85677,8775
	3,07737,4541
14113	4,14961,93415,3316
	3,07715,6496
14114	4,14965,01130,9812
	3,07693,8482
14115	4,14968,08824,8294
	3,07672,0500
14116	4,14971,16496,8794
	3,07650,2547
14117	4,14974,24147,1341
	3,07628,4626
14118	4,14977,31775,5967
	3,07606,6736
14119	4,14980,39382,2703
	3,07584,8876
14120	4,14983,46967,1579
	3,07563,1047
14121	4,14986,54530,2626
	3,07541,3250
14122	4,14989,62071,5876
	3,07519,5483
14123	4,14992,69591,1359
	3,07497,7747
14124	4,14995,77088,9106
	3,07476,0042
14125	4,14998,84564,9148
	3,07454,2367
14126	4,15001,92019,1515
	3,07432,4723
14127	4,15004,99451,6238
	3,07410,7111
14128	4,15008,06862,3349
	3,07388,9529
14129	4,15011,14251,2878
	3,07367,1978
14130	4,15014,21618,4856
	3,07345,4457
14131	4,15017,28963,9313
	3,07323,6968
14132	4,15020,36287,6281
	3,07301,9509
14133	4,15023,43589,5790
	3,07280,2081
14134	4,15026,50869,7871
	3,07258,4683
14135	4,15029,58128,2554
	3,07236,7317
14136	4,15032,65364,9871
	3,07214,9981
14137	4,15035,72579,9852
	3,07193,2676
14138	4,15038,79773,2528
	3,07171,5402
14139	4,15041,86944,7930
	3,07149,8158
14140	4,15044,94094,6088
	3,07128,0946
14141	4,15048,01222,7034
	3,07106,3763
14142	4,15051,08329,0797
	3,07084,6612
14143	4,15054,15413,7409
	3,07062,9491
14144	4,15057,22476,6900
	3,07041,2401
14145	4,15060,29517,9301
	3,07019,5342
14146	4,15063,36537,4643
	3,06997,8313
14147	4,15066,43535,2956
	3,06976,1315
14148	4,15069,50511,4271
	3,06954,4348
14149	4,15072,57465,8619
	3,06932,7412
14150	4,15075,64398,6031
	3,06911,0505
14151	4,15078,71309,6536
	3,06889,3630
14152	4,15081,78199,0166
	3,06867,6786
14153	4,15084,85066,6952
	3,06845,9972
14154	4,15087,91912,6924
	3,06824,3188
14155	4,15090,98737,0112
	3,06802,6436
14156	4,15094,05539,6548
	3,06780,9713
14157	4,15097,12320,6261
	3,06759,3022
14158	4,15100,19079,9283
	3,06737,6361
14159	4,15103,25817,5644
	3,06715,9731
14160	4,15106,32533,5375
	3,06694,3131
14161	4,15109,39227,8506
	3,06672,6562
14162	4,15112,45900,5068
	3,06651,0024
14163	4,15115,52551,5092
	3,06629,3516
14164	4,15118,59180,8608
	3,06607,7038
14165	4,15121,65788,5646
	3,06586,0591
14166	4,15124,72374,6237
	3,06564,4175
14167	4,15127,78939,0412
	3,06542,7790
14168	4,15130,85481,8202
	3,06521,1434
14169	4,15133,92002,9636
	3,06499,5110
14170	4,15136,98502,4746
	3,06477,8815
14171	4,15140,04980,3561
	3,06456,2552
14172	4,15143,11436,6113
	3,06434,6319
14173	4,15146,17871,2432
	3,06413,0117
14174	4,15149,24284,2549
	3,06391,3945
14175	4,15152,30675,6494
	3,06369,7803
14176	4,15155,37045,4297
	3,06348,1692
14177	4,15158,43393,5989
	3,06326,5612
14178	4,15161,49720,1601
	3,06304,9561
14179	4,15164,56025,1162
	3,06283,3542
14180	4,15167,62308,4704
	3,06261,7553
14181	4,15170,68570,2257
	3,06240,1594
14182	4,15173,74810,3851
	3,06218,5666
14183	4,15176,81028,9517
	3,06196,9769
14184	4,15179,87225,9286
	3,06175,3901
14185	4,15182,93401,3187
	3,06153,8064
14186	4,15185,99555,1251
	3,06132,2258
14187	4,15189,05687,3509
	3,06110,6481
14188	4,15192,11797,9990
	3,06089,0736
14189	4,15195,17887,0726
	3,06067,5021
14190	4,15198,23954,5747
	3,06045,9336
14191	4,15201,30000,5083
	3,06024,3682
14192	4,15204,36024,8765
	3,06002,8057
14193	4,15207,42027,6822
	3,05981,2464
14194	4,15210,48008,9286
	3,05959,6901
14195	4,15213,53968,6187
	3,05938,1368
14196	4,15216,59906,7555
	3,05916,5866
14197	4,15219,65823,3421
	3,05895,0393
14198	4,15222,71718,3814
	3,05873,4952
14199	4,15225,77591,8766
	3,05851,9540
14200	4,15228,83443,8306
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14202	4,15234,95083,1273
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14203	4,15238,00870,4761
	3,05765,8197
14204	4,15241,06636,2958
	3,05744,2938
14205	4,15244,12380,5896
	3,05722,7708
14206	4,15247,18103,3604
	3,05701,2509
14207	4,15250,23804,6113
	3,05679,7340
14208	4,15253,29484,3453
	3,05658,2201
14209	4,15256,35142,5654
	3,05636,7093
14210	4,15259,40779,2747
	3,05615,2015
14211	4,15262,46394,4762
	3,05593,6967
14212	4,15265,51988,1729
	3,05572,1950
14213	4,15268,57560,3679
	3,05550,6962
14214	4,15271,63111,0641
	3,05529,2005
14215	4,15274,68640,2646
	3,05507,7078
14216	4,15277,74147,9724
	3,05486,2182
14217	4,15280,79634,1906
	3,05464,7316
14218	4,15283,85098,9222
	3,05443,2479
14219	4,15286,90542,1701
	3,05421,7674
14220	4,15289,95963,9375
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14221	4,15293,01364,2273
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14227	4,15311,33315,1061
	3,05250,0313
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14229	4,15317,43793,7153
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14230	4,15320,49000,8428
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	3,05142,7944
14233	4,15329,64493,5530
	3,05121,3560
14234	4,15332,69614,9090
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14235	4,15335,74714,8297
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	3,05057,0590
14237	4,15341,84850,3771
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14238	4,15344,89886,0099
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14239	4,15347,94900,2193
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14240	4,15350,99893,0084
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14241	4,15354,04864,3802
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14242	4,15357,09814,3378
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	3,04543,6570
14261	4,15414,99798,8155
	3,04522,3028
14262	4,15418,04321,1183
	3,04500,9515
14263	4,15421,08822,0698
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14265	4,15427,17759,9310
	3,04436,9157
14266	4,15430,22196,8467
	3,04415,5764
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	3,04372,9068
14269	4,15439,35379,5700
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	3,04266,2851
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14276	4,15460,65392,8361
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14277	4,15463,69595,1841
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14279	4,15469,77935,9638
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14280	4,15472,82074,4015
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	3,04074,5543
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	3,04053,2657
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	3,03968,1414
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	3,03946,8678
14289	4,15500,18362,3125
	3,03925,5972
14290	4,15503,22287,9097
	3,03904,3295
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	3,03883,0648
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	3,03861,8031
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	3,03840,5444
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	3,03819,2886
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	3,03798,0358
14296	4,15521,45394,9759
	3,03776,7859
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	3,03606,8944
14305	4,15548,78621,4128
	3,03585,6713
14306	4,15551,82207,0841
	3,03564,4512
14307	4,15554,85771,5353
	3,03543,2340
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	3,03522,0199
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	3,03500,8086
14310	4,15563,96337,5978
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14311	4,15566,99817,1982
	3,03458,3950
14312	4,15570,03275,5932
	3,03437,1927
14313	4,15573,06712,7859
	3,03415,9934
14314	4,15576,10128,7793
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14315	4,15579,13523,5762
	3,03373,6035
14316	4,15582,16897,1797
	3,03352,4130
14317	4,15585,20249,5927
	3,03331,2254
14318	4,15588,23580,8181
	3,03310,0409
14319	4,15591,26890,8590
	3,03288,8593
14320	4,15594,30179,7183
	3,03267,6806
14321	4,15597,33447,3989
	3,03246,5050
14322	4,15600,36693,9039
	3,03225,3322
14323	4,15603,39919,2361
	3,03204,1625
14324	4,15606,43123,3986
	3,03182,9956
14325	4,15609,46306,3942
	3,03161,8318
14326	4,15612,49468,2260
	3,03140,6708
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14337	4,15645,82852,4047
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14338	4,15648,85760,5003
	3,02886,9701
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	3,02865,8475
14340	4,15654,91513,3179
	3,02844,7279
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	3,02823,6112
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	3,02802,4975
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14365	4,15730,56303,2797
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	3,02275,6096
14368	4,15739,63193,2323
	3,02254,5722
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	3,02233,5378
14370	4,15745,67681,3423
	3,02212,5062
14371	4,15748,69893,8485
	3,02191,4776
14372	4,15751,72085,3261
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	3,02065,3675
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	3,01981,3525
14382	4,15781,92844,1729
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	3,01939,3625
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	3,01918,3719
14385	4,15790,98662,2634
	3,01897,3842
14386	4,15794,00559,6476
	3,01876,3995
14387	4,15797,02436,0471
	3,01855,4176
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	3,01834,4387
14389	4,15803,06125,9034
	3,01813,4627
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	3,01792,4895
14391	4,15809,09731,8556
	3,01771,5194
14392	4,15812,11503,3750
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14393	4,15815,13253,9271
	3,01729,5877
14394	4,15818,14983,5148
	3,01708,6263
14395	4,15821,16692,1411
	3,01687,6677
14396	4,15824,18379,8088
	3,01666,7121
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	3,01645,7594
14398	4,15830,21692,2803
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14404	4,15848,31126,9926
	3,01499,1718
14405	4,15851,32626,1644
	3,01478,2424
14406	4,15854,34104,4068
	3,01457,3158
14407	4,15857,35561,7226
	3,01436,3922
14408	4,15860,36998,1148
	3,01415,4715
14409	4,15863,38413,5863
	3,01394,5536
14410	4,15866,39808,1399
	3,01373,6387
14411	4,15869,41181,7786
	3,01352,7267
14412	4,15872,42534,5053
	3,01331,8176
14413	4,15875,43866,3229
	3,01310,9113
14414	4,15878,45177,2342
	3,01290,0080
14415	4,15881,46467,2422
	3,01269,1076
14416	4,15884,47736,3498
	3,01248,2101
14417	4,15887,48984,5599
	3,01227,3155
14418	4,15890,50211,8754
	3,01206,4237
14419	4,15893,51418,2991
	3,01185,5349
14420	4,15896,52603,8340
	3,01164,6490
14421	4,15899,53768,4830
	3,01143,7660
14422	4,15902,54912,2490
	3,01122,8858
14423	4,15905,56035,1348
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14424	4,15908,57137,1434
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14425	4,15911,58218,2770
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14426	4,15914,59278,5404
	3,01039,3942
14427	4,15917,60317,9346
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14429	4,15923,62334,1290
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14430	4,15926,63310,9349
	3,00955,9489
14431	4,15929,64266,8838
	3,00935,0948
14432	4,15932,65201,9786
	3,00914,2436
14433	4,15935,66116,2222
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14434	4,15938,67009,6175
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14435	4,15941,67882,1673
	3,00851,7073
14436	4,15944,68733,8746
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	3,00810,0309
14438	4,15950,70374,7731
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	3,00768,3659
14440	4,15956,71932,3361
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	3,00726,7126
14442	4,15962,73406,5866
	3,00705,8903
14443	4,15965,74112,4769
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14445	4,15971,75461,8021
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14446	4,15974,76105,2427
	3,00622,6298
14447	4,15977,76727,8725
	3,00601,8218
14448	4,15980,77329,6943
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14460	4,16016,82929,5851
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14461	4,16019,83261,1657
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	3,00290,0481
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14469	4,16043,85166,4153
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14475	4,16061,85723,9947
	3,00020,3669
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14482	4,16082,85431,4455
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	2,99709,7975
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	2,99647,7608
14494	4,16118,82569,8225
	2,99627,0876
14495	4,16121,82196,9101
	2,99606,4172
14496	4,16124,81803,3273
	2,99585,7497
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14505	4,16151,77331,3868
	2,99399,8704
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	2,99379,2314
14507	4,16157, 76110,4886
	2,99358,5953
14508	4,16160, 75469,0839
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14509	4,16163, 74807,0458
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14510	4,16166,74124,3773
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14512	4,16172, 72697,1601
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14517	4,16187, 68768,2829
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14519	4,16193, 67052,4578
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14523	4,16205, 63373,6055
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14524	4,16208, 62402, 4085
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14525	4,16211, 61410,6237
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14526	4,16214, 60398, 2538
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14527	4,16217, 59365, 3016
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14528	4,16220, 58311, 7701
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14530	4,16226, 56142, 9802
	2,98884,7473
14531	4,16229, 55027,7275
	2,98864,1792
14532	4,16232,53891,9067
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14533	4,16235, 52735,5207
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14534	4,16238, 51558,5723
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14535	4,16241, 50361,0644
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14536	4,16244, 49142,9997
	2,98761,3814
14537	4,16247, 47904,3811
	2,98740,8303
14538	4,16250, 46645,2114
	2,98720,2821
14539	4,16253, 45365,4935
	2,98699,7367
14540	4,16256, 44065,2301
	2,98679,1940
14541	4,16259, 42744,4242
	2,98658,6542
14542	4,16262, 41403, 0784
	2,98638,1173
14543	4,16265, 40041,1957
	2,98617,5832
14544	4,16268, 38658,7789
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14545	4,16271, 37255,8308
	2,98576,5234
14546	4,16274, 35832,3542
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14547	4,16277, 34388,3519
	2,98535,4749
14548	4,16280, 32923,8268
	2,98514,9549
14549	4,16283, 31438,7817
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14552	4,16292, 26860,5543
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14553	4,16295, 25293,4573
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14554	4,16298, 23705, 8544
	2,98391,8939
14555	4,16301, 22097,7483
	2,98371,3937
14556	4,16304, 20469, 1420
	2,98350,8962
14557	4,16307, 18820,0382
	2,98330,4016
14558	4,16310, 17150,4398
	2,98309,9097
14559	4,16313, 15460,3495
	2,98289,4207
14560	4,16316, 13749,7702
	2,98268,9345
14561	4,16319, 12018, 7047
	2,98248,4511
14562	4,16322, 10267,1558
	2,98227,9705
14563	4,16325, 08495, 1263
	2,98207,4928
14564	4,16328, 06702,6191
	2,98187,0178
14565	4,16331, 04889,6369
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14566	4,16334, 03056,1826
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14567	4,16337, 01202,2589
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14568	4,16339, 99327,8687
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14569	4,16342, 97433,0148
	2,98084, 6852
14570	4,16345, 95517, 7000
	2,98064,2271
14571	4,16348, 93581,9271
	2,98043,7718
14572	4,16351, 91625, 6989
	2,98023,3193
14573	4,16354, 89649,0182
	2,98002,8696
14574	4,19357, 87651,8878
	2,97982,4228
14575	4,16360, 85634,3106
	2,97961,9787
14576	4,16363, 83596, 2893
	2,97941,5374
14577	4,16366, 81537,8267
	2,97921,0990
14578	4,16369, 79458,9257
	2,97900,6634
14579	4,16372, 77359,5891
	2,97880,2305
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	2,97859,8005
14581	4,16378, 73099,6201
	2,97839,3732
14582	4,16381, 70938,9933
	2,97818,9488
14583	4,16384, 68757,9421
	2,97798,5271
14584	4,16387, 66556,4692
	2,97778, 1083
14585	4,16390, 64334,5775
	2,97757,6923
14586	4,16393, 62092,2698
	2,97737,2790
14587	4,16396, 59829,5488
	2,97716,8686
14588	4,16399, 57546,4174
	2,97696,4610
14589	4,16402, 55242,8784
	2,97676,0561
14590	4,16405, 52918,9345
	2,97655,6541
14591	4,16408, 50574, 5886
	2,97635,2548
14592	4,16411, 48209,8434
	2,97614,8584
14593	4,16414, 45824,7018
	2,97594,4647
14594	4,16417,43419,1665
	2,97574,0738
14595	4,16420, 40993,2403
	2,97553,6858
14596	4,16423, 38546,9261
	2,97533,3005
14597	4,16426, 36080, 2266
	2,97512,9180
14598	4,16429, 33593,1446
	2,97492,5383
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14603	4,16444, 20852,0952
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14604	4,16447, 18242,7769
	2,97370,3188
14605	4,16450, 15613,0957
	2,97349,9586
14606	4,16453, 12963,0543
	2,97329,6012
14607	4,16456, 10292,6555
	2,97309,2467
14608	4,16459,07601,9022
	2,97288,8949
14609	4,16461, 04890,7971
	2,97268,5459
14610	4,16465, 02159,3430
	2,97248,1996
14611	4,16467, 99407,5426
	2,97227,8562
14612	4,16470, 96635,3988
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14613	4,16473, 93842,9143
	2,97187,1777
14614	4,16476, 91030,0920
	2,97166,8426
14615	4,16479, 88196,9346
	2,97146,5103
14616	4,16482, 85343,4449
	2,97126,1807
14617	4,16485, 82469,6256
	2,97105,8540
14618	4,16488, 79575,4796
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14619	4,16491, 76661,0096
	2,97065,2089
14620	4,16494, 73726,2185
	2,97044,8905
14621	4,16497, 70771,1090
	2,97024,5748
14622	4,16500, 67795,6838
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14623	4,16503, 64799,9458
	2,96983,9519
14624	4,16505, 61783,8977
	2,96963,6446
14625	4,16509, 58747,5423
	2,96943,3401
14626	4,16512, 55690, 8824
	2,96923,0384
14627	4,16515, 52613,9208
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14628	4,16518, 49516,6602
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14629	4,16521, 46399,1034
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14630	4,16524, 43261,2532
	2,96841,8592
14631	4,16527, 40103,1124
	2,96821,5713
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Num. absolut.	Logarithmi.
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14635	4,16539, 27267, 6982
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14636	4,16542, 24008, 1458
	2,96720,1736
14637	4,16545, 20728,3194
	2,96699,9023
14638	4,16548, 17428, 2217
	2,96679,6339
14639	4,16551, 14107,8556
	2,96659,3685
14640	4,16554, 10707,2238
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	2,96558,0812
14645	4,16568, 93760,1762
	2,96537,8321
14646	4,16571, 90298,0083
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14647	4,16574, 86815,5941
	2,96497,3423
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	2,96477,1015
14649	4,16580, 79790,0379
	2,96456,8634
14650	4,16583, 76246,9013
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	2,96416,3956
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	2,96173,8208
14664	4,16625, 24519,5416
	2,96153,6241
14665	4,16628,20673,1657
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14667	4,16634, 12919,8349
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14668	4,16637, 09012,8856
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14669	4,16640, 05085,7506
	2,96052,6822
14670	4,16643, 01138,4328
	2,96032,5020
14671	4,16645, 97170,9348
	2,96012,3246
14672	4,16648, 93183,2594
	2,95992,1500
14673	4,16651, 89175,4094
	2,95971,9782
14674	4,16654, 85147,3876
	2,95951,8090
14675	4,16657, 81099,1966
	2,95931,6426
14676	4,16660, 77030,8392
	2,95911,4789
14677	4,16663, 72942,3181
	2,95891,3180
14678	4,16666, 68833,6361
	2,95871,1599
14679	4,16669, 64704,7960
	2,95851,0046
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14683	4,16681, 47987,9091
	2,95770,4104
14684	4,16684, 43758, 3195
	2,95750, 2687
14685	4,16687, 39508,5882
	2,95730, 1297
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	2,95709,9936
14687	4,16693, 30948,7115
	2,95689,8601
14688	4,16696, 26638,5716
	2,95669,7294
14689	4,16699, 22308,3010
	2,95649,6015
14690	4,16702, 17957,9025
	2,95629,4762
14691	4,16705, 13587,3787
	2,95609,3538
14692	4,16708, 09196,7325
	2,95589,2340
14693	4,16711, 04785,9665
	2,95569,1170
14694	4,16714, 00355,0835
	2,95549,0028
14695	4,16716, 95904,0863
	2,95528,8912
14696	4,16719, 91432,9775
	2,95508,7824
14697	4,16722, 86941,7599
	2,95488,6764
14698	4,16725, 82430,4363
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	2,95348,0105
14705	4,16746,50288,4309
	2,95327,9263
14706	4,16749,45616,3572
	2,95307,8449
14707	4,16752,40924,2021
	2,95287,7661
14708	4,16755,36211,9682
	2,95267,6902
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	2,95247,6169
14710	4,16761,26727,2753
	2,95227,5464
14711	4,16764,21954,8217
	2,95207,4785
14712	4,16767,17162,3002
	2,95187,4134
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	2,95167,3511
14714	4,16773,07517,0648
	2,95147,2915
14715	4,16776,02664,3563
	2,95127,2346
14716	4,16778,97791,5909
	2,95107,1804
14717	4,16781,92898,7713
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14718	4,16784,87985,9003
	2,95067,0802
14719	4,16787,83052,9805
	2,95047,0343
14720	4,16790,78100,0148
	2,95026,9910
14721	4,16793,73127,0058
	2,95006,9504
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14723	4,16799,63120,8688
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14724	4,16802,58087,7463
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14725	4,16805,53034,5914
	2,94926,8154
14726	4,16808,47961,4068
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14727	4,16811,42868,1953
	2,94886,7643
14728	4,16814,37745,9596
	2,94866,7428
14729	4,16817,32621,7024
	2,94846,7240
14730	4,16820,27468,4264
	2,94826,7079
14731	4,16823,22295,1343
	2,94806,6945
14732	4,16826,17101,8288
	2,94786,6839
14733	4,16829,11888,5127
	2,94766,6760
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14737	4,16840,90835,1963
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	2,94526,7926
14746	4,16867,42295,6708
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14747	4,16870,36802,4908
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14748	4,16873,31289,3408
	2,94466,8828
14749	4,16876,25756,2236
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14750	4,16879,20203,1418
	2,94426,9564
14751	4,16882,14630,0982
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14752	4,16885,09037,0955
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	2,94367,0872
14754	4,16890,97791,2236
	2,94347,1362
14755	4,16893,92138,3598
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14756	4,16896,86465,5477
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14758	4,16902,75060,0893
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14759	4,16905,69327,4485
	2,94247,4217
14760	4,16908,63574,8702
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14761	4,16911,57802,3571
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14762	4,16914,52009,9119
	2,94187,6254
14763	4,16917,46197,5373
	2,94167,6988
14764	4,16920,40365,2361
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14765	4,16923,34513,0109
	2,94127,8535
14766	4,16926,28640,8644
	2,94107,9349
14767	4,16929,22748,7993
	2,94088,0190
14768	4,16932,16836,8183
	2,94068,1058
14769	4,16935,10904,9241
	2,94048,1954
14770	4,16938,04953,1195
	2,94028,2875
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	2,94008,3824
14772	4,16943,92989,7894
	2,93988,4800
14773	4,16946,86978,2694
	2,93968,5803
14774	4,16949,80946,8497
	2,93948,6832
14775	4,16952,74895,5329
	2,93928,7889
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14777	4,16958,62733,2191
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14778	4,16961,56622,2274
	2,93869,1221
14779	4,16964,50491,3495
	2,93849,2385
14780	4,16967,44340,5880
	2,93829,3576
14781	4,16970,38169,9456
	2,93809,4794
14782	4,16973,31979,4251
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14783	4,16976,25769,0291
	2,93769,7311
14784	4,16979,19538,7603
	2,93749,8610
14785	4,16982,13288,6213
	2,93729,9936
14786	4,16985,01018,6149
	2,93710,1288
14787	4,16988,00728,7438
	2,93690,2668
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	2,93670,4074
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	2,93650,5507
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	2,93630,6967
14791	4,16999,75370,6657
	2,93610,8454
14792	4,17002,68981,5112
	2,93590,9968
14793	4,17005,62572,5081
	2,93571,1509
14794	4,17008,56143,6590
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14796	4,17014,43226,4336
	2,93511,6291
14797	4,17017,36738,0627
	2,93491,7939
14798	4,17020,30229,8566
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14799	4,17023,23701,8180
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14800	4,17026,17153,9496
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14803	4,17034,97391,3917
	2,93372,8389
14804	4,17037,90764,2306
	2,93353,0225
14805	4,17040,84117,2531
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14806	4,17043,77450,4618
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14807	4,17046,70763,8593
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14808	4,17049,64057,4484
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14809	4,17052,57331,2317
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14810	4,17055,50585,2120
	2,93234,1795
14811	4,17058,43819,3918
	2,93214,3815
14812	4,17061,37033,7729
	2,93194,5860
14813	4,17064,30228,3509
	2,93174,7931
14814	4,17067,23403,1546
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14815	4,17070,16558,1606
	2,93135,2147
14816	4,17073,09693,3785
	2,93115,4293
14817	4,17076,02808,8120
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14818	4,17078,95904,4638
	2,93075,8728
14819	4,17081,88980,3366
	2,93056,0964
14820	4,17084,82036,4330
	2,93036,3227
14821	4,17087,75072,7557
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14822	4,17090,68089,3074
	2,92996,7833
14823	4,17093,61086,0907
	2,92977,0176
14824	4,17096,54063,1083
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14825	4,17099,47020,3630
	2,92937,4942
14826	4,17102,39957,8572
	2,92917,7365
14827	4,17105,32875,5937
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14828	4,17108,25773,5752
	2,92878,2292
14829	4,17111,18651,8044
	2,92858,4795
14830	4,17114,11510,2839
	2,92838,7324
14831	4,17117,04349,0163
	2,92818,9880
14832	4,17119,97168,0043
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14834	4,17125,82746,7578
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14836	4,17131,68246,5658
	2,92720,3060
14837	4,17134,60965,8718
	2,92700,5776
14838	4,17137,53667,4494
	2,92680,8519
14839	4,17140,46348,3013
	2,92661,1288
14840	4,17143,39009,4301
	2,92641,4083
14841	4,17146,31650,8384
	2,92621,6906
14842	4,17149,24272,5290
	2,92601,9754
14843	4,17152,16874,5044
	2,92582,2630
14844	4,17155,09456,7674
	2,92562,5532
14845	4,17158,02019,3206
	2,92542,8460
14846	4,17160,94562,1666
	2,92523,1415
14847	4,17163,87085,3081
	2,92503,4397
14848	4,17166,79588,7478
	2,92483,7405
14849	4,17169,72072,4883
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	2,92444,3501
14851	4,17175,56980,8824
	2,92424,6588
14852	4,17178,49405,5412
	2,92404,9702
14853	4,17181,41810,5114
	2,92385,2843
14854	4,17184,34195,7957
	2,92365,6011
14855	4,17187,26561,3968
	2,92345,9204
14856	4,17190,18907,3172
	2,92326,2424
14857	4,17193,11233,5596
	2,92306,5671
14858	4,17196,03540,1267
	2,92286,8945
14859	4,17198,95827,0212
	2,92267,2244
14860	4,17201,88094,2456
	2,92247,5570
14861	4,17204,80341,8026
	2,92227,8922
14862	4,17207,72569,6948
	2,92208,2301
14863	4,17210,64777,9249
	2,92188,5707
14864	4,17213,56966,4956
	2,92168,9140
14865	4,17216,49135,4096
	2,92149,2597
14866	4,17219,41284,6693
	2,92129,6082
14867	4,17222,33414,2775
	2,92109,9594

Num. absolut.	Logarithmi.
14867	4,17222,33414,2775
	2,92109,9594
14868	4,17225,25524,2369
	2,92090,3131
14869	4,17228,17614,5500
	2,92070,6696
14870	4,17231,09685,2196
	2,92051,0286
14871	4,17234,01736,2482
	2,92031,3903
14872	4,17236,93767,6385
	2,92011,7546
14873	4,17239,85779,3931
	2,91992,1216
14874	4,17242,77771,5147
	2,91972,4912
14875	4,17245,69744,0059
	2,91952,8635
14876	4,17248,61696,8694
	2,91933,2384
14877	4,17251,53630,1078
	2,91913,6159
14878	4,17254,45543,7237
	2,91893,9961
14879	4,17257,37437,7198
	2,91874,3788
14880	4,17260,29312,0986
	2,91854,7643
14881	4,17263,21166,8629
	2,91835,1524
14882	4,17266,13002,0153
	2,91815,5431
14883	4,17269,04817,5584
	2,91795,9365
14884	4,17271,96613,4949
	2,91776,3325
14885	4,17274,88389,8274
	2,91756,7311
14886	4,17277,80146,5585
	2,91737,1323
14887	4,17280,71883,6908
	2,91717,5362
14888	4,17283,63601,2270
	2,91697,9428
14889	4,17286,55299,1698
	2,91678,3519
14890	4,17289,46977,5217
	2,91658,7637
14891	4,17292,38636,2854
	2,91639,1781
14892	4,17295,30275,4635
	2,91619,5952
14893	4,17298,21895,0587
	2,91600,0148
14894	4,17301,13495,0735
	2,91580,4371
14895	4,17304,05075,5106
	2,91560,8621
14896	4,17306,96636,3727
	2,91541,2896
14897	4,17309,88177,6623
	2,91521,7198
14898	4,17312,79699,3821
	2,91502,1526
14899	4,17315,71201,5347
	2,91482,5881
14900	4,17318,62684,1228
	2,91463,0261

Num. absolut.	Logarithmi.
14901	4,17321,54147,1489
	2,91443,4668
14902	4,17324,45590,6157
	2,91423,9101
14903	4,17327,37014,5258
	2,91404,3560
14904	4,17330,28418,8818
	2,91384,8047
14905	4,17333,19803,6865
	2,91365,2558
14906	4,17336,11168,9423
	2,91345,7096
14907	4,17339,02514,6519
	2,91326,1661
14908	4,17341,93840,8180
	2,91306,6251
14909	4,17344,85147,4431
	2,91287,0868
14910	4,17347,76434,5299
	2,91267,5511
14911	4,17350,67702,0810
	2,91248,0180
14912	4,17353,58950,0990
	2,91228,4876
14913	4,17356,50178,5866
	2,91208,9597
14914	4,17359,41387,5463
	2,91189,4345
14915	4,17362,32576,9808
	2,91169,9119
14916	4,17365,23746,8927
	2,91150,3919
14917	4,67368,14897,2846
	2,91130,8745
14918	4,17371,06028,1591
	2,91111,3598
14919	4,17373,97139,5189
	2,91091,8476
14920	4,17376,88231,3665
	2,91072,3381
14921	4,17379,79303,7046
	2,91052,8312
14922	4,17382,70356,5358
	2,91033,3269
14923	4,17385,61389,8627
	2,91013,8252
14924	4,17388,52403,6879
	2,90994,3262
14925	4,17391,43398,0141
	2,90974,8297
14926	4,17394,34372,8438
	2,90955,3358
14927	4,17397,25328,1796
	2,90935,8446
14928	4,17400,16264,0242
	2,90916,3560
14929	4,17403,07180,3802
	2,90896,8701
14930	4,17405,98077,2503
	2,90877,3866
14931	4,17408,88954,6369
	2,90857,9058
14932	4,17411,79812,5427
	2,90838,4276
14933	4,17414,70650,9703
	2,90818,9521
14934	4,17417,61469,9224
	2,90799,4791

Num. absolut.	Logarithmi.
14934	4,17417,61469,9224
	2,90799,4791
14935	4,17420,52269,4015
	2,90780,0087
14936	4,17423,43049,4102
	2,90760,5410
14937	4,17426,33809,9512
	2,90741,0759
14938	4,17429,24551,0271
	2,90721,6133
14939	4,17432,15272,6404
	2,90702,1534
14940	4,17435,05974,7938
	2,90682,6961
14941	4,17437,96657,4899
	2,90663,2414
14942	4,17440,87320,7313
	2,90643,7892
14943	4,17443,77964,5205
	2,90624,3397
14944	4,17446,68588,8602
	2,90604,8928
14945	4,17449,59193,7530
	2,90585,4485
14946	4,17452,49779,2015
	2,90566,0068
14947	4,17455,40345,2083
	2,90546,5677
14948	4,17458,30891,7760
	2,90527,1312
14949	4,17461,21418,9072
	2,90507,6973
14950	4,17464,11926,6045
	2,90488,2660
14951	4,17467,02414,8705
	2,90468,8373
14952	4,17469,92883,7078
	2,90449,4112
14953	4,17472,83333,1190
	2,90429,9877
14954	4,17475,73763,1067
	2,90410,5667
14955	4,17478,64173,6734
	2,90391,1485
14956	4,17481,54564,8219
	2,90371,7327
14957	4,17484,44936,5546
	2,90352,3196
14958	4,17487,35288,8742
	2,90332,9091
14959	4,17490,25621,7833
	2,90313,5012
14960	4,17493,15935,2845
	2,90294,0958
14961	4,17496,06229,3803
	2,90274,6931
14962	4,17498,96504,0734
	2,90255,2929
14963	4,17501,86759,3663
	2,90235,8954
14964	4,17504,76995,2617
	2,90216,5004
14965	4,17507,67211,7621
	2,90197,1080
14966	4,17510,57408,8701
	2,90177,7183
14967	4,17513,47586,5884
	2,90158,3311

Num. absolut.	Logarithmi.
14967	4,17513,47586,5884
	2,90158,3311
14968	4,17516,37744,9195
	2,90138,9465
14969	4,17519,27883,8660
	2,90119,5645
14970	4,17522,18003,4305
	2,90100,1851
14971	4,17525,08103,6156
	2,90080,8082
14972	4,17527,98184,4238
	2,90061,4340
14973	4,17530,88245,8578
	2,90042,0624
14974	4,17533,78287,9202
	2,90022,6933
14975	4,17536,68310,6135
	2,90003,3268
14976	4,17539,58313,9403
	2,89983,9629
14977	4,17542,48297,9032
	2,89964,6016
14978	4,17545,38262,5048
	2,89945,2429
14979	4,17548,28207,7477
	2,89925,8868
14980	4,17551,18133,6345
	2,89906,5332
14981	4,17554,08040,1677
	2,89887,1822
14982	4,17556,97927,3499
	2,89867,8338
14983	4,17559,87795,1837
	2,89848,4881
14984	4,17562,77643,6718
	2,89829,1448
14985	4,17565,67472,8166
	2,89809,8042
14986	4,17568,57282,6208
	2,89790,4661
14987	4,17571,47073,0869
	2,89771,1307
14988	4,17574,36844,2176
	2,89751,7978
14989	4,17577,26596,0154
	2,89732,4674
14990	4,17580,16328,4828
	2,89713,1397
14991	4,17583,06041,6225
	2,89693,8145
14992	4,17585,95735,4370
	2,89674,4920
14993	4,17588,85409,9290
	2,89655,1720
14994	4,17591,75065,1010
	2,89635,8545
14995	4,17594,64700,9555
	2,89616,5397
14996	4,17597,54317,4952
	2,89597,2274
14997	4,17600,43914,7226
	2,89577,9177
14998	4,17603,33492,6403
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14999	4,17606,23051,2508
	2,89539,3060
15000	4,17609,12590,5568
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Num. absolut.	Logarithmi.
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15002	4,17614,91611,2655 2,89481,4078
15003	4,17617,81092,6733 2,89462,1135
15004	4,17620,70554,7868 2,89442,8219
15005	4,17623,59997,6087 2,89423,5327
15006	4,17626,49421,1414 2,89404,2462
15007	4,17629,38825,3876 2,89384,9622
15008	4,17632,28210,3498 2,89365,6808
15009	4,17635,17576,0306 2,89346,4020
15010	4,17638,06922,4326 2,89327,1257
15011	4,17640,96249,5583 2,89307,8520
15012	4,17643,85557,4103 2,89288,5809
15013	4,17646,74845,9912 2,89269,3123
15014	4,17649,64115,3035 2,89250,0464
15015	4,17652,53365,3499 2,89230,7829
15016	4,17655,42596,1328 2,89211,5221
15017	4,17658,31807,6549 2,89192,2638
15018	4,17661,20999,9187 2,89173,0080
15019	4,17664,10172,9267 2,89153,7548
15020	4,17666,99326,6815 2,89134,5042
15021	4,17669,88461,1857 2,89115,2561
15022	4,17672,77576,4418 2,89096,0107
15023	4,17675,66672,4525 2,89076,7677
15024	4,17678,55749,2202 2,89057,5274
15025	4,17681,44806,7476 2,89038,2896
15026	4,17684,33845,0372 2,89019,0544
15027	4,17687,22864,0916 2,88999,8217
15028	4,17690,11863,9133 2,88980,5916
15029	4,17693,00844,5049 2,88961,3640
15030	4,17695,89805,8689 2,88942,1390
15031	4,17698,78748,0079 2,88922,9166
15032	4,17701,67670,9245 2,88903,6967
15033	4,17704,56574,6212 2,88884,4794
15034	4,17707,45459,1006 2,88865,2646
15035	4,17710,34324,3652 2,88846,0524
15036	4,17713,23170,4176 2,88826,8427
15037	4,17716,11997,2603 2,88807,6356
15038	4,17719,00804,8959 2,88788,4311
15039	4,17721,89593,3270 2,88769,2291
15040	4,17724,78362,5561 2,88750,0296
15041	4,17727,67112,5857 2,88730,8328
15042	4,17730,55843,4185 2,88711,6384
15043	4,17733,44555,0569 2,88692,4466
15044	4,17736,33247,5035 2,88673,2574
15045	4,17739,21920,7609 2,88654,0707
15046	4,17742,10574,8316 2,88634,8866
15047	4,17744,99209,7182 2,88615,7050
15048	4,17747,87825,4232 2,88596,5259
15049	4,17750,76421,9491 2,88577,3495
15050	4,17753,64999,2986 2,88558,1755
15051	4,17756,53557,4741 2,88539,0041
15052	4,17759,42096,4782 2,88519,8353
15053	4,17762,30616,3135 2,88500,6690
15054	4,17765,19116,9825 2,88481,5053
15055	4,17768,07598,4878 2,88462,3440
15056	4,17770,96060,8318 2,88443,1854
15057	4,17773,84504,0172 2,88424,0292
15058	4,17776,72928,0464 2,88404,8757
15059	4,17779,61332,9221 2,88385,7247
15060	4,17782,49718,6468 2,88366,5762
15061	4,17785,38085,2230 2,88347,4303
15062	4,17788,26432,6533 2,88328,2868
15063	4,17791,14760,9401 2,88309,1460
15064	4,17794,03070,0861 2,88290,0077
15065	4,17796,91360,0938 2,88270,8719
15066	4,17799,79630,9657 2,88251,7387
15067	4,17802,67882,7044 2,88232,6080
15068	4,17805,56115,3124 2,88213,4798
15069	4,17808,44328,7923 2,88194,3542
15070	4,17811,32523,1464 2,88175,2311
15071	4,17814,20698,3775 2,88156,1106
15072	4,17817,08854,4881 2,88136,9925
15073	4,17819,96991,4806 2,88117,8771
15074	4,17822,85109,3577 2,88098,7642
15075	4,17825,73208,1219 2,88079,6538
15076	4,17828,61287,7757 2,88060,5459
15077	4,17831,49348,3216 2,88041,4406
15078	4,17834,37389,7622 2,88022,3378
15079	4,17837,25412,1000 2,88003,2376
15080	4,17840,13415,3376 2,87984,1398
15081	4,17843,01399,4774 2,87965,0446
15082	4,17845,89364,5220 2,87945,9520
15083	4,17848,77310,4740 2,87926,8618
15084	4,17851,65237,3358 2,87907,7743
15085	4,17854,53145,1101 2,87888,6892
15086	4,17857,41033,7993 2,87869,6066
15087	4,17860,28903,4059 2,87850,5266
15088	4,17863,16753,9325 2,87831,4492
15089	4,17866,04585,3817 2,87812,3742
15090	4,17868,92397,7559 2,87793,3018
15091	4,17871,80191,0577 2,87774,2319
15092	4,17874,67965,2896 2,87755,1645
15093	4,17877,55720,4541 2,87736,0997
15094	4,17880,43456,5538 2,87717,0374
15095	4,17883,31173,5912 2,87697,9776
15096	4,17886,18871,5688 2,87678,9203
15097	4,17889,06550,4891 2,87659,8656
15098	4,17891,94210,3547 2,87640,8133
15099	4,17894,81851,1680 2,87621,7637
15100	4,17897,69472,9317 2,87602,7165

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15102	4,17903,44659,3201
	2,87564,6297
15103	4,17906,32223,9498
	2,87545,5901
15104	4,17909,19769,5399
	2,87526,5531
15105	4,17912,07296,0930
	2,87507,5185
15106	4,17914,94803,6115
	2,87488,4865
15107	4,17917,82292,0980
	2,87469,4569
15108	4,17920,69761,5549
	2,87450,4299
15109	4,17923,57211,9848
	2,87431,4054
15110	4,17926,44643,3902
	2,87412,3835
15111	4,17929,32055,7737
	2,87393,3640
15112	4,17932,19449,1377
	2,87374,3471
15113	4,17935,06823,4848
	2,87355,3327
15114	4,17937,94178,8175
	2,87336,3208
15115	4,17940,81515,1383
	2,87317,3114
15116	4,17943,68832,4497
	2,87298,3045
15117	4,17946,56130,7542
	2,87279,3002
15118	4,17949,43410,0544
	2,87260,2984
15119	4,17952,30670,3528
	2,87241,2990
15120	4,17955,17911,6518
	2,87222,3022
15121	4,17958,05133,9540
	2,87203,3079
15122	4,17960,92337,2619
	2,87184,3161
15123	4,17963,79521,5780
	2,87165,3269
15124	4,17966,66686,9049
	2,87146,3401
15125	4,17969,53833,2450
	2,87127,3558
15126	4,17972,40960,6008
	2,87108,3741
15127	4,17975,28068,9749
	2,87089,3949
15128	4,17978,15158,3698
	2,87070,4181
15129	4,17981,02228,7879
	2,87051,4439
15130	4,17983,89280,2318
	2,87032,4722
15131	4,17986,76312,7040
	2,87013,5030
15132	4,17989,63326,2070
	2,86994,5363
15133	4,17992,50320,7433
	2,86975,5721
15134	4,17995,37296,3154
	2,86956,6104

Num. absolut.	Logarithmi.
15134	4,17995,37296,3154
	2,86956,6104
15135	4,17998,24252,9258
	2,86937,6513
15136	4,18001,11190,5771
	2,86918,6946
15137	4,18003,98109,2717
	2,86899,7404
15138	4,18006,85009,0121
	2,86880,7888
15139	4,18009,71889,8009
	2,86861,8396
15140	4,18012,58751,6405
	2,86842,8930
15141	4,18015,45594,5335
	2,86823,9488
15142	4,18018,32418,4823
	2,86805,0072
15143	4,18021,19223,4895
	2,86786,0680
15144	4,18024,06009,5575
	2,86767,1313
15145	4,18026,92776,6888
	2,86748,1972
15146	4,18029,79524,8860
	2,86729,2655
15147	4,18032,66254,1515
	2,86710,3364
15148	4,18035,52964,4879
	2,86691,4098
15149	4,18038,39655,8977
	2,86672,4856
15150	4,18041,26328,3833
	2,86653,5640
15151	4,18044,12981,9473
	2,86634,6448
15152	4,18046,99616,5921
	2,86615,7281
15153	4,18049,86232,3202
	2,86596,8140
15154	4,18052,72829,1342
	2,86577,9023
15155	4,18055,59407,0365
	2,86558,9931
15156	4,18058,45966,0296
	2,86540,0865
15157	4,18061,32506,1161
	2,86521,1823
15158	4,18064,19027,2984
	2,86502,2806
15159	4,18067,05529,5790
	2,86483,3814
15160	4,18069,92012,9604
	2,86464,4847
15161	4,18072,78477,4451
	2,86445,5905
15162	4,18075,64923,0356
	2,86426,6988
15163	4,18078,51349,7344
	2,86407,8096
15164	4,18081,37757,5440
	2,86388,9229
15165	4,18084,24146,4669
	2,86370,0386
15166	4,18087,10516,5055
	2,86351,1569
15167	4,18089,96867,6624
	2,86332,2776

Num. absolut.	Logarithmi.
15167	4,18089,96867,6624
	2,86332,2776
15168	4,18092,83199,9400
	2,86313,4008
15169	4,18095,69513,3408
	2,86294,5266
15170	4,18098,55807,8674
	2,86275,6548
15171	4,18101,42083,5222
	2,86256,7855
15172	4,18104,28340,3077
	2,86237,9186
15173	4,18107,14578,2263
	2,86219,0543
15174	4,18110,00797,2806
	2,86200,1925
15175	4,18112,86997,4731
	2,86181,3331
15176	4,18115,73178,8062
	2,86162,4762
15177	4,18118,59341,2824
	2,86143,6219
15178	4,18121,45484,9043
	2,86124,7699
15179	4,18124,31609,6742
	2,86105,9205
15180	4,18127,17715,5947
	2,86087,0736
15181	4,18130,03802,6683
	2,86068,2291
15182	4,18132,89870,8974
	2,86049,3871
15183	4,18135,75920,2845
	2,86030,5477
15184	4,18138,61950,8322
	2,86011,7107
15185	4,18141,47962,5429
	2,85992,8762
15186	4,18144,33955,4191
	2,85974,0441
15187	4,18147,19929,4632
	2,85955,2145
15188	4,18150,05884,6777
	2,85936,3874
15189	4,18152,91821,0652
	2,85917,5628
15190	4,18155,77738,6279
	2,85898,7407
15191	4,18158,63637,3686
	2,85879,9210
15192	4,18161,49517,2896
	2,85861,1039
15193	4,18164,35378,3935
	2,85842,2892
15194	4,18167,21220,6827
	2,85823,4769
15195	4,18170,07044,1596
	2,85804,6672
15196	4,18172,92848,8268
	2,85785,8599
15197	4,18175,78634,6867
	2,85767,0552
15198	4,18178,64401,7419
	2,85748,2528
15199	4,18181,50149,9947
	2,85729,4530
15200	4,18184,35879,4477
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Num. absolut.	Logarithmi.
15201	4,18187, 21590, 1033
	2, 85691, 8607
15202	4,18190, 07281, 9640
	2, 85672, 0682
15203	4,18192, 92955, 0323
	2, 85654, 2783
15204	4,18195, 78609, 3106
	2, 85635, 4909
15205	4,18198, 64244, 8015
	2, 85616, 7059
15206	4,18201, 49861, 5074
	2, 85597, 9233
15207	4,18204, 35459, 4307
	2, 85579, 1432
15208	4,18207, 21038, 5739
	2, 85560, 3656
15209	4,18210, 06598, 9395
	2, 85541, 5905
15210	4,18212, 92140, 5300
	2, 85522, 8178
15211	4,18215, 77663, 3478
	2, 85504, 0476
15212	4,18218, 63167, 3954
	2, 85485, 2799
15213	4,18221, 48652, 6753
	2, 85466, 5146
15214	4,18224, 34119, 1899
	2, 85447, 7519
15215	4,18227, 19566, 9418
	2, 84428, 9915
15216	4,18230, 04995, 9333
	2, 85410, 2337
15217	4,18232, 90406, 1070
	2, 85391, 4782
15218	4,18235, 75797, 6453
	2, 85372, 7253
15219	4,18238, 61170, 3706
	2, 85353, 9749
15220	4,18241, 46524, 3455
	2, 85335, 2269
15221	4,18244, 31859, 5724
	2, 85316, 4813
15222	4,18247, 17176, 0537
	2, 85297, 7383
15223	4,18250, 02473, 7920
	2, 85278, 9976
15224	4,18252, 87752, 7896
	2, 85260, 2595
15225	4,18255, 73013, 0491
	2, 85241, 5238
15226	4,18258, 58254, 5729
	2, 85222, 7906
15227	4,18261, 43477, 3635
	2, 85204, 0598
15228	4,18264, 28681, 4233
	2, 85185, 3315
15229	4,18267, 13866, 7548
	2, 85166, 6056
15230	4,18269, 99033, 3604
	2, 85147, 8823
15231	4,18272, 84181, 2427
	2, 85129, 1613
15232	4,18275, 69310, 4040
	2, 85110, 4428
15233	4,18278, 54420, 8468
	2, 85091, 7268
15234	4,18281, 39512, 5736
	2, 85073, 0133

Num. absolut.	Logarithmi.
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	2, 85073, 0133
15235	4,18284, 24585, 5869
	2, 85054, 3022
15236	4,18287, 09639, 8891
	2, 85035, 5935
15237	4,18289, 94675, 4826
	2, 85016, 8874
15238	4,18292, 79692, 3700
	2, 84998, 1836
15239	4,18295, 64690, 5536
	2, 84979, 4822
15240	4,18298, 49670, 0359
	2, 84960, 7835
15241	4,18301, 34630, 8194
	2, 84942, 0871
15242	4,18304, 19572, 9065
	2, 84923, 3932
15243	4,18307, 04496, 2997
	2, 84904, 7017
15244	4,18309, 89401, 0014
	2, 84886, 0127
15245	4,18312, 74287, 0142
	2, 84867, 3261
15246	4,18315, 59154, 3402
	2, 84848, 6420
15247	4,18318, 44002, 9822
	2, 84829, 9604
15248	4,18321, 28832, 9426
	2, 84811, 2811
15249	4,18324, 13644, 2237
	2, 84792, 6044
15250	4,18326, 98436, 8281
	2, 84773, 9300
15251	4,18329, 83210, 9581
	2, 84755, 2582
15252	4,18332, 67966, 0163
	2, 84736, 5888
15253	4,18335, 52702, 6051
	2, 84717, 9218
15254	4,18338, 37420, 5269
	2, 84699, 2573
15255	4,18341, 22119, 7842
	2, 84680, 5953
15256	4,18344, 06800, 3795
	2, 84661, 9356
15257	4,18346, 91462, 3151
	2, 84643, 2784
15258	4,18349, 76105, 5935
	2, 84624, 6237
15259	4,18352, 60730, 2172
	2, 84605, 9714
15260	4,18355, 45336, 1886
	2, 84587, 3215
15261	4,18358, 29923, 5101
	2, 84568, 6742
15262	4,18361, 14492, 1843
	2, 84550, 0292
15263	4,18363, 99042, 2135
	2, 84531, 3867
15264	4,18366, 83573, 6002
	2, 84512, 7466
15265	4,18369, 68086, 3468
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15266	4,18372, 52580, 4558
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15267	4,18375, 37055, 9296
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Num. absolut.	Logarithmi.
15267	4,18375, 37055, 9296
	2, 84456, 8410
15268	4,18378, 21512, 7706
	2, 84438, 2107
15269	4,18381, 05950, 9813
	2, 84419, 5829
15270	4,18383, 90370, 5642
	2, 84400, 9575
15271	4,18386, 74771, 5217
	2, 84382, 3345
15272	4,18389, 59153, 8562
	2, 84363, 7129
15273	4,18392, 43517, 5701
	2, 84345, 0958
15274	4,18395, 27862, 6659
	2, 84326, 4801
15275	4,18398, 12189, 1460
	2, 84307, 8669
15276	4,18400, 96497, 0129
	2, 84289, 2561
15277	4,18403, 80786, 2690
	2, 84270, 6477
15278	4,18406, 65056, 9167
	2, 84252, 0418
15279	4,18409, 49308, 9585
	2, 84233, 4383
15280	4,18412, 33542, 3968
	2, 84214, 8372
15281	4,18415, 17757, 2340
	2, 84196, 2386
15282	4,18418, 01953, 4726
	2, 84177, 6424
15283	4,18420, 86131, 1150
	2, 84159, 0487
15284	4,18423, 70290, 1637
	2, 84140, 4574
15285	4,18426, 54430, 6211
	2, 84121, 8685
15286	4,18429, 38552, 4896
	2, 84103, 2820
15287	4,18432, 22655, 7716
	2, 84084, 6980
15288	4,18435, 06740, 4696
	2, 84086, 1164
15289	4,18437, 90806, 5860
	2, 84047, 5372
15290	4,18440, 74854, 1232
	2, 84028, 9605
15291	4,18443, 58883, 0837
	2, 84010, 3862
15292	4,18446, 42893, 4699
	2, 83991, 8143
15293	4,18449, 26885, 2842
	2, 83973, 2449
15294	4,18452, 10858, 5291
	2, 83954, 6779
15295	4,18454, 94813, 2070
	2, 83936, 1133
15296	4,18457, 78749, 3203
	2, 83917, 5511
15297	4,18460, 62666, 8714
	2, 83898, 9914
15298	4,18463, 46565, 8628
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15299	4,18466, 30446, 2968
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15300	4,18469, 14308, 1760
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Num. absolut.	Logarithmi.
15301	4,18471, 98151,5027
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15303	4,18477, 65782,5085
	2,83787,6839
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	2,83769,1411
15305	4,18483, 33339,3335
	2,83750,6009
15306	4,18486, 17089,9344
	2,83732,0629
15307	4,18489, 00821,9973
	2,83713,5274
15308	4,18491, 84535,5247
	2,83694,9943
15309	4,18494, 68230,5190
	2,83676,4636
15310	4,18497, 51906,9826
	2,83657,9855
15311	4,18500, 35564,9181
	2,83639,4096
15312	4,18503, 19204,3277
	2,83620,8862
15313	4,18506, 02825,2139
	2,83602,3653
15314	4,18508, 86427,5792
	2,83582,8467
15315	4,18511, 70011,4259
	2,83565,3306
15316	4,18514, 53576,7565
	2,83546,8169
15317	4,18517, 37123,5734
	2,83528,3056
15318	4,18520, 20651,8790
	2,83509,7966
15319	4,18523, 04161,6756
	2,83491,2902
15320	4,18525, 87652,9658
	2,83472,7862
15321	4,18528, 71125,7520
	2,83454,2846
15322	4,18531, 54580,0366
	2,83435,7853
15323	4,18534, 38015,8219
	2,83417,2885
15324	4,18537, 21433,1104
	2,83398,7941
15325	4,18540, 04831,9045
	2,83380,3021
15326	4,18542, 88212,2066
	2,83361,8126
15327	4,18545, 71574,0192
	2,83343,3254
15328	4,18548, 54917,3446
	2,83324,8407
15329	4,18551, 38242,1853
	2,83306,3584
15330	4,18554, 21548,5437
	2,83287,8785
15331	4,18557, 04836,4222
	2,83269,4009
15332	4,18559, 88105,8231
	2,83250,9258
15333	4,18562, 71356,7489
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15334	4,18565, 54589,2021
	2,83213,9829

Num. absolut.	Logarithmi.
15334	4,18565, 54589,2021
	2,83213,9829
15335	4,18568, 37803,1850
	2,83195,5150
15336	4,18571, 20998,7000
	2,83177,0496
15337	4,18574, 04175,7496
	2,83158,5864
15338	4,18576, 87334,3361
	2,83140,1255
15339	4,18579, 70474,4620
	2,83121,6676
15340	4,18582, 53596,1296
	2,83103,2118
15341	4,18585, 36699,3414
	2,83084,7584
15342	4,18588, 19784,0998
	2,83066,3074
15343	4,18591, 02850,4072
	2,83047,8587
15344	4,18593, 85898,2659
	2,83029,4125
15345	4,18596, 68927,6784
	2,83010,9687
15346	4,18599, 51938,6471
	2,82992,5273
15347	4,18602, 34931,1744
	2,82974,0883
15348	4,18605, 17905,2627
	2,82955,6517
15349	4,18608, 00860,9144
	2,82937,2176
15350	4,18610, 83798,1320
	2,82918,7857
15351	4,18613, 66716,9177
	2,82900,3564
15352	4,18616, 49617,2741
	2,82881,9294
15353	4,18619, 32499,2035
	2,82863,5048
15354	4,18622, 15362,7083
	2,82845,0826
15355	4,18624, 98207,7909
	2,82826,6628
15356	4,18627, 81034,4537
	2,82808,2454
15357	4,18630, 63842,6991
	2,82789,8304
15358	4,18633, 46632,5295
	2,82771,4178
15359	4,18636, 29403,9473
	2,82753,0077
15360	4,18639, 12156,9550
	2,82734,5998
15361	4,18641, 94891,5548
	2,82716,1944
15362	4,18644, 77607,7492
	2,82697,7914
15363	4,18647, 60305,5406
	2,82679,3908
15364	4,18650, 42984,9314
	2,82660,9926
15365	4,18653, 25645,9240
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15366	4,18656, 08288,5207
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15367	4,18658, 90912,7240
	2,82605,8123

Num. absolut.	Logarithmi.
15367	4,18658, 90912,7240
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15368	4,18661, 73518,5363
	2,82587,4237
15369	4,18664, 56105,9600
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15370	4,18667, 38674,9974
	2,82550,6536
15371	4,18670, 21225,6510
	2,82532,2721
15372	4,18673, 03757,9231
	2,82513,8930
15373	4,18675, 86271,8161
	2,82495,5163
15374	4,18678, 68767,3324
	2,82477,1421
15375	4,18681, 51244,4745
	2,82458,7702
15376	4,18684, 33703,2447
	2,82440,4007
15377	4,18687, 16143,6454
	2,82422,0335
15378	4,18689, 98565,6789
	2,82403,6688
15379	4,18692, 80969,3477
	2,82385,3064
15380	4,18695, 63354,6541
	2,82366,9465
15381	4,18698, 45721,6006
	2,82348,5890
15382	4,18701, 28070,1856
	2,82330,2338
15383	4,18704, 10400,4234
	2,82311,8808
15384	4,18706, 92712,3042
	2,82293,5306
15385	4,18709, 75005,8348
	2,82275,1825
15386	4,18712, 57281,0173
	2,82256,8369
15387	4,18715, 39537,8542
	2,82238,4936
15388	4,18718, 21776,3478
	2,82220,1527
15389	4,18721, 03996,5005
	2,82201,8143
15390	4,18723, 86198,3148
	2,82183,4782
15391	4,18726, 68381,7930
	2,82165,1444
15392	4,18729, 50546,9374
	2,82146,8131
15393	4,18732, 32693,7505
	2,82128,4841
15394	4,18735, 14822,2346
	2,82110,1576
15395	4,18737, 96932,3922
	2,82091,8334
15396	4,18740, 79024,2256
	2,82073,5116
15397	4,18743, 61097,7372
	2,82055,1921
15398	4,18746, 43152,9293
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15399	4,18749, 25189,8043
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15403	4,18760,53154,1816
	2,81945,3254
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	2,81927,0226
15405	4,18766,17026,5296
	2,81908,7222
15406	4,18768,98935,2518
	2,81890,4242
15407	4,18771,80825,6760
	2,81872,1285
15408	4,18774,62697,8045
	2,81853,8353
15409	4,18777,44551,6398
	2,81835,5443
15410	4,18780,26387,1841
	2,81817,2558
15411	4,18783,08204,4399
	2,81798,9696
15412	4,18785,90003,4095
	2,81780,6859
15413	4,18788,71784,0954
	2,81762,4044
15414	4,18791,53546,4998
	2,81744,1254
15415	4,18794,35290,6252
	2,81725,8487
15416	4,18797,17016,4739
	2,81707,5744
15417	4,18799,98724,0483
	2,81689,3025
15418	4,18802,80413,3508
	2,81671,0329
15419	4,18805,62084,3837
	2,81652,7657
15420	4,18808,43737,1494
	2,81634,5009
15421	4,18811,25371,6503
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	2,81579,7206
15424	4,18819,70165,5876
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	2,81543,2122
15426	4,18825,33270,2650
	2,81524,9616
15427	4,18828,14795,2266
	2,81506,7134
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	2,81488,4675
15429	4,18833,77790,4075
	2,81470,2239
15430	4,18836,59260,6314
	2,81451,9828
15431	4,18839,40712,6142
	2,81433,7440
15432	4,18842,22146,3582
	2,81415,5075
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	2,81397,2735
15434	4,18847,84959,1392
	2,81379,0418
15435	4,18850,66338,1810
	2,81360,8124
15436	4,18853,47698,9934
	2,81342,5855
15437	4,18856,29041,5789
	2,81324,3608
15438	4,18859,10365,9397
	2,81306,1386
15439	4,18861,91672,0783
	2,81287,9187
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	2,81269,7012
15441	4,18867,54229,6982
	2,81251,4860
15442	4,18870,35481,1842
	2,81233,2731
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	2,81215,0627
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	2,81196,8546
15445	4,18878,79126,3746
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	2,81160,4455
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	2,81142,2444
15448	4,18887,22607,7134
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	2,80942,1885
15459	4,18918,13971,8074
	2,80924,0157
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15464	4,18932,18410,2050
	2,80833,1870
15465	4,18934,99243,3920
	2,80815,0283
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15467	4,18940,60855,2923
	2,80778,7180
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	2,80760,5663
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	2,80742,4171
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	2,80724,2701
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	2,80651,7058
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	2,80633,5705
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	2,80615,4376
15477	4,18968,67825,9297
	2,80597,3071
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	2,80579,1789
15479	4,18974,29002,4157
	2,80561,0531
15480	4,18977,09563,4688
	2,80542,9295
15481	4,18979,90106,3983
	2,80524,8084
15482	4,18982,70631,2067
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15483	4,18985,51137,8962
	2,80488,5730
15484	4,18988,31626,4692
	2,80470,4589
15485	4,18991,12096,9281
	2,80452,3471
15486	4,18993,92549,2752
	2,80434,2376
15487	4,18996,72983,5128
	2,80416,1304
15488	4,18999,53399,6432
	2,80398,0257
15489	4,19002,33797,6689
	2,80379,9232
15490	4,19005,14177,5921
	2,80361,8231
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15492	4,19010,74883,1405
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15493	4,19013,55208,7703
	2,80307,5367
15494	4,19016,35516,3070
	2,80289,4460
15495	4,19019,15805,7530
	2,80271,3575
15496	4,19021,96077,1105
	2,80253,2715
15497	4,19024,76330,3820
	2,80235,1876
15498	4,19027,56565,5696
	2,80217,1062
15499	4,19030,36782,6758
	2,80199,0271
15500	4,19033,16981,7029
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15502	4,19038,77325,5291
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15503	4,19041,57470,3328
	2,80126,7340
15504	4,19044,37597,0668
	2,80108,6666
15505	4,19047,17705,7334
	2,80090,6014
15506	4,19049,97796,3348
	2,80072,5386
15507	4,19052,77868,8734
	2,80054,4782
15508	4,19055,57923,3516
	2,80036,4201
15509	4,19058,37959,7717
	2,80018,3643
15510	4,19061,17978,1360
	2,80000,3108
15511	4,19063,97978,4468
	2,79982,2597
15512	4,19066,77960,7065
	2,79964,2108
15513	4,19069,57924,9173
	2,79946,1644
15514	4,19072,37871,0817
	2,79928,1202
15515	4,19075,17799,2019
	2,79910,0784
15516	4,19077,97709,2803
	2,79892,0388
15517	4,19080,77601,3191
	2,79874,0017
15518	4,19083,57475,3208
	2,79855,9668
15519	4,19086,37331,2876
	2,79837,9342
15520	4,19089,17169,2218
	2,79819,9040
15521	4,19091,96989,1258
	2,79801,8761
15522	4,19094,76791,0019
	2,79783,8506
15523	4,19097,56574,8525
	2,79765,8272
15524	4,19100,36340,6798
	2,79747,8064
15525	4,19103,16088,4862
	2,79729,7878
15526	4,19105,95818,2740
	2,79711,7715
15527	4,19108,75530,0455
	2,79693,7575
15528	4,19111,55223,8030
	2,79675,7459
15529	4,19114,34899,5489
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15530	4,19117,14557,2855
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15531	4,19119,94197,0151
	2,79621,7249
15532	4,19122,73818,7400
	2,79603,7225
15533	4,19125,53422,4625
	2,79585,7225
15534	4,19128,33008,1850
	2,79567,7248
15535	4,19131,12575,9098
	2,79549,7294
15536	4,19133,92125,6392
	2,79531,7363
15537	4,19136,71657,3755
	2,79513,7455
15538	4,19139,51171,1210
	2,79495,7570
15539	4,19142,30666,8780
	2,79477,7709
15540	4,19145,10144,6489
	2,79459,7870
15541	4,19147,89604,4359
	2,79441,8055
15542	4,19150,69046,2414
	2,79423,8263
15543	4,19153,48470,0677
	2,79405,8495
15544	4,19156,27875,9172
	2,79387,8749
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15546	4,19161,86633,6947
	2,79351,9326
15547	4,19164,65985,6273
	2,79333,9650
15548	4,19167,45319,5923
	2,79315,9997
15549	4,19170,24635,5920
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	2,79244,1614
15553	4,19181,41719,9834
	2,79226,2076
15554	4,19184,20946,1910
	2,79208,2562
15555	4,19187,00154,4472
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15556	4,19189,79344,7542
	2,79172,3601
15557	4,19192,58517,1143
	2,79154,4156
15558	4,19195,37671,5299
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15559	4,19198,16808,0033
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15560	4,19200,95926,5367
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15562	4,19206,54109,7929
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15563	4,19209,33174,5203
	2,79046,7967
15564	4,19212,12221,3170
	2,79028,8683
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	2,79010,9422
15566	4,19217,70261,1275
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15567	4,19220,49254,1459
	2,78975,0968
15567	4,19220,49254,1459
	2,78975,0968
15568	4,19223,28229,2427
	2,78957,1777
15569	4,19226,07186,4204
	2,78939,2608
15570	4,19228,86125,6812
	2,78921,3462
15571	4,19231,65047,0274
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15572	4,19234,43950,4613
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15573	4,19237,22835,9851
	2,78867,6162
15574	4,19240,01703,6013
	2,78849,7108
15575	4,19242,80553,3121
	2,78831,8077
15576	4,19245,59385,1198
	2,78813,9069
15577	4,19248,38199,0267
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15580	4,19256,74533,3655
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15581	4,19259,53275,6922
	2,78724,4373
15582	4,19262,32000,1295
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15583	4,19265,10706,6798
	2,78688,6656
15584	4,19267,89395,3454
	2,78670,7832
15585	4,19270,68066,1286
	2,78652,9030
15586	4,19273,46719,0316
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15587	4,19276,25354,0568
	2,78617,1497
15588	4,19279,03971,2065
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15589	4,19281,82570,4829
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15590	4,19284,61151,8884
	2,78563,5368
15591	4,19287,39715,4252
	2,78545,6704
15592	4,19290,18261,0956
	2,78527,8063
15593	4,19292,96788,9019
	2,78509,9446
15594	4,19295,75298,8465
	2,78492,0851
15595	4,19298,53790,9316
	2,78474,2279
15596	4,19301,32265,1595
	2,78456,3729
15597	4,19304,10721,5324
	2,78438,5203
15598	4,19306,89160,0527
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15599	4,19309,67580,7227
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15604	3,19323, 59416,3976 2,78313,6160
15605	4,19326, 37730,0136 2,78295,7817
15606	4,19329, 16025,7953 2,78277,9496
15607	4,19331, 94303,7449 2,78260,1198
15608	4,19334, 72563,8647 2,78242,2924
15609	4,19337, 50806,1571 2,78224,4672
15610	4,19340, 29030,6243 2,78206,6443
15611	4,19343, 07237,2686 2,78188,8236
15612	4,19345, 85426,0922 2,78171,0053
15613	4,19348, 63597,0975 2,78153,1892
15614	4,19351, 41750,0867 2,78135,3755
15615	4,19354, 19885,6622 2,78117,5640
15616	4,19356, 98003,2262 2,78099,7548
15617	4,19359, 76102,9810 2,78081,9478
15618	4,19362, 54184,9289 2,78064,1431
15619	4,19365, 32249,0720 2,78046,3408
15620	4,19368, 10295,4128 2,78028,5407
15621	4,19370, 88323,9555 2,78010,7429
15622	4,19373, 66334,6964 2,77992,9474
15623	4,19376, 44327,6438 2,77975,1541
15624	4,19379, 22302,7979 2,77957,3632
15625	4,19382, 00260,1611 2,77939,5744
15626	4,19384, 78200,7355 2,77921,7880
15627	4,19387, 56123,5235 2,77903,9038
15628	4,19390, 34029,5274 2,77886,2220
15629	4,19393, 11917,7494 2,77868,4424
15630	4,19395, 89788,1918 2,77850,6651
15631	4,19398, 67640,8569 2,77832,8900
15632	4,19401, 45476,7469 2,77815,1173
15633	4,19404, 23295,8642 2,77797,3468
15634	4,19407, 01076,2110 2,77779,5785
15635	4,19409, 78855,7895 2,77761,8126
15636	4,19412, 56617,6021 2,77744,0489
15637	4,19415, 34361,6510 2,77726,2874
15638	4,19418, 12087,9384 2,77708,5284
15639	4,19420, 89796,4668 2,77690,7717
15640	4,19423, 67487,2887 2,77673,0169
15641	4,19426, 45160,1557 2,77655,2646
15642	4,19429, 22815,3165 2,77637,5145
15643	4,19432, 00453,0343 2,77619,7667
15644	4,19434, 78072,8010 2,77602,0212
15645	4,19437, 55674,8222 2,77584,2779
15646	4,19440, 33259,1001 2,77566,5370
15647	4,19443, 10825,6371 2,77548,7982
15648	4,19445, 88374,4353 2,77531,0618
15649	4,19448, 65905,4971 2,77513,3276
15650	4,19451, 43418,8247 2,77495,5957
15651	4,19454, 20914,4204 2,77477,8660
15652	4,19456, 98392,2864 2,77460,1386
15653	4,19459, 75852,4250 2,77442,4136
15654	4,19462, 53294,8386 2,77424,6907
15655	4,19465, 30719,5293 2,77406,9701
15656	4,19468, 08126,4994 2,77389,2518
15657	4,19470, 85515,7512 2,77371,5357
15658	4,19473, 62887,2869 2,77353,8219
15659	4,19476, 40241,1088 2,77336,1104
15660	4,19479, 17577, 2192 2,77318,4011
15661	4,19481, 94895,6203 2,77300,6941
15662	4,19484, 72196,3144 2,77282,9895
15663	4,19487, 49479,3037 2,77265,2869
15664	4,19490, 26744,5906 2,77247,5866
15665	4,19493, 03992,1772 2,77229,8886
15666	4,19495, 81222,0658 2,77212,1929
15667	4,19498, 58434,2587 2,77194,4995
15668	4,19501, 35628,7582 2,77176,8083
15669	4,19504, 12805,5665 2,77159,1194
15670	4,19506, 89964,6859 2,77141,4327
15671	4,19509, 67106,1186 2,77123,7482
15672	4,19512, 44229,8668 2,77106,0661
15673	4,19515, 21335,9320 2,77088,3861
15674	4,19517, 98424,2165 2,77070,7085
15675	4,19520, 75495,6275 2,77053,0331
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15677	4,19526, 29583,4205 2,77017,6891
15678	4,19529, 06601,1096 2,77000,0204
15679	4,19531, 83601,1300 2,76982,3541
15680	4,19534, 60583,4841 2,76964,6899
15681	4,19537, 37548,1740 2,76947,0281
15682	4,19540, 14495,2021 2,76929,3684
15683	4,19542, 91424,5705 2,76911,7111
15684	4,19545, 68336,2816 2,76894,0560
15685	4,19548, 45230,3376 2,76876,4031
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15688	4,19556, 75806,5973 2,76823,4580
15689	4,19559, 52630,0553 2,76805,8141
15690	4,19562, 29435,8694 2,76788,1725
15691	4,19565, 06224,0419 2,76770,5331
15692	4,19567, 82994,5750 2,76752,8960
15693	4,19570, 59747,4710 2,76735,2611
15694	4,19573, 36482,7322 2,76717,6285
15695	4,19576, 13200,3607 2,76699,9981
15696	4,19578, 89900,3588 2,76682,3700
15697	4,19581, 66582,7288 2,76664,7441
15698	4,19584, 43247,4728 2,76647,1205
15699	4,19587, 19894,5933 2,76629,4991
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15704	4,19601,02865,9195
	2,76541,4257
15705	4,19603,79407,3452
	2,76523,8178
15706	4,19606,55931,1630
	2,76506,2121
15707	4,19609,32437,3751
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15708	4,19612,08925,9837
	2,76471,0075
15709	4,19614,85396,9912
	2,76453,4085
15710	4,19617,61850,3997
	2,76435,8118
15711	4,19620,38286,2115
	2,76418,2173
15712	4,19623,14704,4288
	2,76400,6250
15713	4,19625,91105,0538
	2,76383,0350
15714	4,19628,67488,0888
	2,76365,4472
15715	4,19631,43853,5360
	2,76347,8617
15716	4,19634,20201,3977
	2,76330,2784
15717	4,19636,96531,6761
	2,76312,6974
15718	4,19639,72844,3735
	2,76295,1185
15719	4,19642,49139,4920
	2,76277,5420
15720	4,19645,25417,0340
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15721	4,19648,01677,0016
	2,76242,3954
15722	4,19650,77919,3970
	2,76224,8256
15723	4,19653,54144,2226
	2,76207,2579
15724	4,19656,30351,4805
	2,76189,6926
15725	4,19659,06541,1731
	2,76172,1294
15726	4,19661,82713,3025
	2,76154,5684
15727	4,19664,58867,8709
	2,76137,0097
15728	4,19667,35004,8806
	2,76119,4532
15729	4,19670,11124,3338
	2,76101,8990
15730	4,19672,87226,2328
	2,76084,3470
15731	4,19675,63310,5798
	2,76066,7972
15732	4,19678,39377,3770
	2,76049,2497
15733	4,19681,15426,6267
	2,76031,7043
15734	4,19683,91458,3310
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15735	4,19686,67472,4923
	2,75996,6204
15736	4,19689,43469,1127
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15737	4,19692,19448,1945
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15738	4,19694,95409,7399
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15739	4,19697,71353,7512
	2,75926,4793
15740	4,19700,47280,2305
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15741	4,19703,23189,1801
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15742	4,19705,99080,6022
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15743	4,19708,74954,4990
	2,75856,3738
15744	4,19711,50810,8728
	2,75838,8529
15745	4,19714,26649,7257
	2,75821,3344
15746	4,19717,02471,0601
	2,75803,8180
15747	4,19719,78274,8781
	2,75786,3038
15748	4,19722,54061,1819
	2,75768,7920
15749	4,19725,29829,9739
	2,75751,2823
15750	4,19728,05581,2562
	2,75733,7748
15751	4,19730,81315,0310
	2,75716,2696
15752	4,19733,57031,3006
	2,75698,7666
15753	4,19736,32730,0672
	2,75681,2658
15754	4,19739,08411,3330
	2,75663,7672
15755	4,19741,84075,1002
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15756	4,19744,59721,3711
	2,75628,7767
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	2,75611,2848
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15759	4,19752,86555,2277
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15762	4,19761,13231,6972
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15763	4,19763,88755,5557
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15764	4,19766,64261,9357
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15765	4,19769,39750,8393
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15766	4,19772,15222,2687
	2,75453,9575
15767	4,19774,90676,2262
	2,75426,4877
15768	4,19777,66112,7139
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15769	4,19780,41531,7342
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15770	4,19783,16933,2891
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15773	4,19791,43033,1842
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15774	4,19794,18364,9001
	2,75314,2616
15775	4,19796,93679,1617
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15776	4,19799,68975,9713
	2,75279,3598
15777	4,19802,44255,3311
	2,75261,9122
15778	4,19805,19517,2433
	2,75244,4669
15779	4,19807,94761,7102
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15780	4,19810,69988,7339
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15781	4,19813,45198,3167
	2,75192,1440
15782	4,19816,20390,4607
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15783	4,19818,95565,1682
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15784	4,19821,70722,4413
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15786	4,19827,20984,6934
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15787	4,19829,96089,6768
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15788	4,19832,71177,2347
	2,75070,1346
15789	4,19835,46247,3693
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15790	4,19838,21300,0829
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15791	4,19840,96335,3776
	2,75017,8780
15792	4,19843,71353,2556
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15793	4,19846,46353,7191
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15794	4,19849,21336,7704
	2,74965,6412
15795	4,19851,96302,4116
	2,74948,2334
15796	4,19854,71250,6450
	2,74930,8277
15797	4,19857,46181,4727
	2,74913,4243
15798	4,19860,21094,8970
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15804	4,19876,70210,0941
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15805	4,19879,45001,7560
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15806	4,19882,19776,0321
	2,74756,8924
15807	4,19884,94532,9245
	2,74739,5110
15808	4,19887,69272,4355
	2,74722,1318
15809	4,19890,43994,5673
	2,74704,7548
15810	4,19893,18699,3221
	2,74687,3799
15811	4,19895,93386,7020
	2,74670,0073
15812	4,19898,68056,7093
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15813	4,19901,42709,3462
	2,74635,2686
15814	4,19904,17344,6148
	2,74617,9026
15815	4,19906,91962,5174
	2,74600,5388
15816	4,19909,66563,0562
	2,74583,1771
15817	4,19912,41146,2333
	2,74565,8176
15818	4,19915,15712,0509
	2,74548,4604
15819	4,19917,90260,5113
	2,74531,1053
15820	4,19920,64791,6166
	2,74513,7524
15821	4,19923,39305,3690
	2,74496,4017
15822	4,19926,13801,7707
	2,74479,0533
15823	4,19928,88280,8240
	2,74461,7070
15824	4,19931,62742,5310
	2,74444,3629
15825	4,19934,37186,8939
	2,74427,0210
15826	4,19937,11613,9149
	2,74409,6812
15827	4,19939,86023,5961
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15831	4,19950,83488,9678
	2,74323,0156
15832	4,19953,57811,9834
	2,74305,6879
15833	4,19956,32117,6723
	2,74288,3646
15834	4,19959,06406,0369
	2,74271,0424
15835	4,19961,80677,0793
	2,74253,7224
15836	4,19964,54930,8017
	2,74236,4045
15837	4,19967,29167,2062
	2,74219,0889
15838	4,19970,03386,2951
	2,74201,7755
15839	4,19972,77588,0706
	2,74184,4642
15840	4,19975,51772,5348
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15841	4,19978,25939,6899
	2,74149,8482
15842	4,19981,00089,5381
	2,74132,5435
15843	4,19983,74222,0816
	2,74115,2410
15844	4,19986,48337,3226
	2,74097,9407
15845	4,19989,22435,2633
	2,74080,6425
15846	4,19991,96515,9058
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15847	4,19994,70579,2523
	2,74046,0527
15848	4,19997,44625,3050
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15853	4,20011,14596,2381
	2,73942,3358
15854	4,20013,88538,5739
	2,73925,0572
15855	4,20016,62463,6311
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15856	4,20019,36371,4120
	2,73890,5068
15857	4,20022,10261,9188
	2,73873,2348
15858	4,20024,84135,1536
	2,73855,9649
15859	4,20027,57991,1185
	2,73838,6973
15860	4,20030,31829,8158
	2,73821,4319
15861	4,20033,05651,2477
	2,73804,1686
15862	4,20035,79455,4163
	2,73786,9075
15863	4,20038,53242,3238
	2,73769,6486
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15867	4,20049,48217,3864
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15868	4,20052,21918,0211
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15871	4,20060,42916,4454
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15872	4,20063,16548,1009
	2,73614,4162
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15876	4,20074,10902,3512
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15877	4,20076,84447,8317
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	2,73511,0256
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	2,73476,5795
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	2,73459,3597
15882	4,20090,51916,8500
	2,73442,1420
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15885	4,20098,72191,6317
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15886	4,20101,45582,1338
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15887	4,20104,18955,4269
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15888	4,20106,92311,5132
	2,73338,8816
15889	4,20109,65650,3948
	2,73321,6791
15890	4,20112,38972,0739
	2,73304,4788
15891	4,20115,12276,5527
	2,73287,2806
15892	4,20117,85563,8333
	2,73270,0847
15893	4,20120,58833,9180
	2,73252,8908
15894	4,20123,32086,8088
	2,73235,6992
15895	4,20126,05322,5080
	2,73218,5097
15896	4,20128,78541,0177
	2,73201,3223
15897	4,20131,51742,3400
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15898	4,20134,24926,4771
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15900	4,20139,71243,2045
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15904	4,20150,63670,5324 2,73063,9014
15905	4,20153,36734,4338 2,73046,7336
15906	4,20156,09781,1674 2,73029,5678
15907	4,20158, 82810,7352 2,73012,4042
15908	4,20161, 55823,1394 2,72995,2428
15909	4,20164, 28818,3822 2,72978,0836
15910	4,20167,01796,4658 2,72960,9265
15911	4,20169,74757,3923 2,72943,7715
15912	4,20172,47701,1638 2,72926,6187
15913	4,20175, 20627,7825 2,72909,4681
15914	4,20177,93537,2506 2,72892,3196
15915	4,20180,66429,5702 2,72875,1733
15916	4,20183,39304,7435 2,72858,0291
15917	4,20186,12162,7726 2,72840,8871
15918	4,20188,85003,6597 2,72823,7473
15919	4,20191,57827,4070 2,72806,6095
15920	4,20194, 30634,0165 2,72789,4740
15921	4,20197,03423,4905 2,72772,3406
15922	4,20199,76195,8311 2,72755,2093
15923	4,20202,48951,0404 2,72738,0802
15924	4,20205, 21689, 1206 2,72720,9533
15925	4,20207,94410,0739 2,72703,8285
15926	4,20210,67113,9024 2,72686,7058
15927	4,20213,39800,6082 2,72669,5853
15928	4,20216,12470,1935 2,72652,4669
15929	4,20218,85122,6604 2,72635,3508
15930	4,20221, 57758, 0112 2,72618,2367
15931	4,20224, 30376,2479 2,73601,1249
15932	4,20227,02977,3728 2,72584,0151
15933	4,20229,75561,3879 2,72566,9075
15934	4,20232,48128,2954 2,72549,8021
15935	4,20235,20678,0975 2,72532,6987
15936	4,20237,93210,7962 2,72515,5976
15937	4,20240,65726,3938 2,72498,4985
15938	4,20243,38224,8923 2,72481,4017
15939	4,20246, 10706,2940 2,72464,3069
15940	4,20248,83170,6009 2,72447,2143
15941	4,20251,55617,8152 2,72430,1239
15942	4,20254,28047,9391 2,72413,0356
15943	4,20257,00460,9747 2,72395,9495
15944	4,20259,72856,9242 2,72378,8655
15945	4,20262,45235,7897 2,72361,7836
15946	4,20265,17597,5733 2,72344,7039
15947	4,20267,89942,2771 2,72327,6263
15948	4,20270,62269,9035 2,72310,5509
15949	4,20273,34580,4544 2,72293,4776
15950	4,20276,06873,9320 2,72276,4064
15951	4,20278,79150,3384 2,72259,3374
15952	4,20281,51409,6758 2,72242,2705
15953	4,20284,23651,9463 2,72225,2058
15954	4,20286,95877,1521 2,72208,1432
15955	4,20289,68085,2953 2,72191,0827
15956	4,20292,40276,3780 2,72174,0244
15957	4,20295,12450,4024 2,72156,9682
15958	4,20297,84607,3706 2,72139,9142
15959	4,20300,56747,2848 2,72122,8623
15960	4,20303,28870,1471 2,72105,8125
15961	4,20306,00975,9596 2,72088,7649
15962	4,20308,73064,7245 2,72071,7193
15963	4,20311,45136,4438 2,72054,6760
15964	4,20314,17191,1198 2,72037,6348
15965	4,20316,89228,7546 2,72020,5957
15966	4,20319,61249,3503 2,72003,5587
15967	4,20322,33252,9090 2,71986,5239
15968	4,20325,05239,4329 2,71969,4912
15969	4,20327,77208,9241 2,71952,4607
15970	4,20330,49161,3848 2,71935,4322
15971	4,20333,21096,8170 2,71918,4060
15972	4,20335,93015,2230 2,71901,3818
15973	4,20338,64916,6048 2,71884,3598
15974	4,20341,36800,9646 2,71867,3398
15975	4,20344,08668,3044 2,71850,3221
15976	4,20346,80518,6265 2,71833,3064
15977	4,20349,52351,9329 2,71816,2929
15978	4,20352,24168,2258 2,71799,2816
15979	4,20354,95967,5074 2,71782,2723
15980	4,20357,67749,7797 2,71765,2652
15981	4,20360,39515,0449 2,71748,2602
15982	4,20363,11263,3058 2,71731,2573
15983	4,20365,82994,5624 2,71714,2566
15984	4,20368,54708,8190 2,71697,2580
15985	4,20371,26406,0770 2,71680,2615
15986	4,20373,98086,3385 2,71663,0672
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15988	4,20379,41395,8806 2,71629,2848
15989	4,20382,13025,1654 2,71612,2969
15990	4,20384,84637,4623 2,71595,3110
15991	4,20387,56232,7733 2,71578,3273
15992	4,20390,27811,1006 2,71561,3456
15993	4,20392,99372,4462 2,71544,3662
15994	4,20395,70916,8124 2,71527,3888
15995	4,20398,42444,2012 2,71510,4136
15996	4,20401,13954,6148 2,71493,4405
15997	4,20403,85448,0553 2,71476,4694
15998	4,20406,56924,5247 2,71459,5006
15999	4,20409,28384,0253 2,71442,5349
16000	4,20411,99826,5592 2,71425,5692

Num. absolut.	Logarithmi.	Num. absolut.	Logarithmi.	Num. absolut.	Logarithmi.
16001	4,20414,71252,1285 2,71408,6067	16034	4,20504,18792,6138 2,70850,0309	16067	4,20593,47936,8468 2,70293,7495
16002	4,20417,42660,7352 2,71391,6463	16035	4,20506,89642,6447 2,70833,1405	16068	4,20596,18230,5963 2,70276,9281
16003	4,20420,14052,3815 2,71374,6880	16036	4,20509,60475,7850 2,70816,2517	16069	4,20598,88507,5245 2,70260,1089
16004	4,20422,85427,0696 2,71357,7319	16037	4,20512,31292,0367 2,70799,3622	16070	4,20601,58767,6334 2,70243,2917
16005	4,20425,56784,8015 2,71340,7778	16038	4,20515,02091,4019 2,70782,4809	16071	4,20604,29010,9252 2,70226,4767
16006	4,20428,28125,5794 2,71323,8259	16039	4,20517,72873,8828 2,70765,5987	16072	4,20606,99237,4019 2,70209,6637
16007	4,20430,99449,4053 2,71306,8761	16040	4,20520,43639,4815 2,70748,7186	16073	4,20609,69447,0656 2,70192,8528
16008	4,20433,70756,2815 2,71289,9284	16041	4,20523,14388,2001 2,70731,8406	16074	4,20612,39639,9185 2,70176,0440
16009	4,20436,42046,2100 2,71272,9829	16042	4,20525,85120,0407 2,70714,9646	16075	4,20615,09815,9626 2,70159,2373
16010	4,20439,13319,1929 2,71256,0394	16043	4,20528,55835,0053 2,70698,0968	16076	4,20617,79975,2000 2,70142,4327
16011	4,20441,84575,2324 2,71239,0981	16044	4,20531,26533,0961 2,70681,2191	16077	4,20620,50117,6328 2,70125,6302
16012	4,20444,55814,3305 2,71222,1589	16045	4,20533,97214,3152 2,70664,3495	16078	4,20623,20243,2630 2,70108,8298
16013	4,20447,27036,4895 2,71205,2218	16046	4,20536,67878,6647 2,70647,4820	16079	4,20625,90352,0928 2,70092,0315
16014	4,20449,98241,7114 2,71188,2868	16047	4,20539,38526,1468 2,70630,6166	16080	4,20628,60444,1243 2,70075,2352
16015	4,20452,69429,9983 2,71171,3540	16048	4,20542,09156,7634 2,70613,7523	16081	4,20631,30519,3596 2,70058,4411
16016	4,20455,40601,3523 2,71154,4232	16049	4,20544,79770,5167 2,70596,8921	16082	4,20634,00577,8007 2,70041,6490
16017	4,20458,11755,7756 2,71137,4946	16050	4,20547,50367,4089 2,70580,0330	16083	4,20636,70619,4497 2,70024,8590
16018	4,20460,82893,2703 2,71120,5681	16051	4,20550,20947,4420 2,70563,1760	16084	4,20639,40644,3087 2,70008,0711
16019	4,20463,54013,8384 2,71103,6437	16052	4,20552,91519,6180 2,70546,3211	16085	4,20642,10652,3799 2,69991,2853
16020	4,20466,25117,4821 2,71086,7214	16053	4,20555,62056,9392 2,70529,4683	16086	4,20644,80643,6653 2,69974,5016
16021	4,20468,96204,2036 2,71069,8012	16054	4,20558,32586,4075 2,70512,6176	16087	4,20647,50618,1669 2,69957,7199
16022	4,20471,67274,0049 2,71052,8832	16055	4,20561,03099,0252 2,70495,7690	16088	4,20650,20575,8869 2,69940,9404
16023	4,20474,38326,8881 2,71035,9672	16056	4,20563,73594,7943 2,70478,9225	16089	4,20652,90516,8273 2,69924,1629
16024	4,20477,09362,8553 2,71019,0533	16057	4,20566,44073,7169 2,70462,0781	16090	4,20655,60440,9903 2,69907,3876
16025	4,20479,80381,9087 2,71002,1416	16058	4,20569,14535,7950 2,70445,2358	16091	4,20658,30348,3779 2,69890,6142
16026	4,20482,51384,0503 2,70985,2320	16059	4,20571,84981,0309 2,70428,3956	16092	4,20661,00238,9922 2,69873,8431
16027	4,20485,22369,2823 2,70968,3244	16060	4,20574,55409,4266 2,70411,5575	16093	4,20663,70112,8354 2,69857,0739
16028	4,20487,93337,6067 2,70951,4190	16061	4,20577,25820,9842 2,70394,7216	16094	4,20666,39969,9094 2,69840,3069
16029	4,20490,64290,0257 2,70934,5157	16062	4,20579,96215,7057 2,70377,8876	16095	4,20669,09810,2164 2,69823,5419
16030	4,20493,35225,5414 2,70917,6145	16063	4,20582,66593,3934 2,70361,0558	16096	4,20671,79633,7584 2,69806,7791
16031	4,20496,06141,1560 2,70900,7155	16064	4,20585,36954,6492 2,70344,2261	16097	4,20674,49440,5375 2,69790,0183
16032	4,20498,77041,8715 2,70883,8185	16065	4,20588,07298,8753 2,70327,3984	16098	4,20677,19230,5558 2,69773,2596
16033	4,20501,47925,6901 2,70866,9237	16066	4,20590,77626,2738 2,70310,5729	16099	4,20679,89003,8155 2,69756,5030
16034	4,20504,18792,6138 2,70850,0309	16067	4,20593,47936,8468 2,70293,7495	16100	4,20682,58760,3185 2,69739,7484

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16103	4,20690,67929,3086
	2,69689,4973
16104	4,20693,37618,8059
	2,69672,7511
16105	4,20696,07291,5570
	2,69656,0069
16106	4,20698,76947,5640
	2,69639,2629
16107	4,20701,46586,8289
	2,69622,5249
16108	4,20704,16209,3539
	2,69605,7870
16109	4,20706,85815,1409
	2,69589,0512
16110	4,20709,55404,1921
	2,69572,3174
16111	4,20712,24976,5096
	2,69555,5858
16112	4,20714,94532,0954
	2,69538,8562
16113	4,20717,64070,9516
	2,69522,1286
16114	4,20720,33593,0803
	2,69505,4032
16115	4,20723,03098,4835
	2,69488,6798
16116	4,20725,72587,1634
	2,69471,9585
16117	4,20728,42059,1220
	2,69455,2393
16118	4,20731,11514,3614
	2,69438,5222
16119	4,20733,80952,8836
	2,69421,8071
16120	4,20736,50374,6907
	2,69405,0941
16121	4,20739,19779,7849
	2,69388,3832
16122	4,20741,89168,1681
	2,69371,6744
16123	4,20744,58539,8425
	2,69354,9676
16124	4,20747,27894,8101
	2,69338,2629
16125	4,20749,97233,0731
	2,69321,5602
16126	4,20752,66554,6334
	2,69304,8597
16127	4,20755,35859,4931
	2,69288,1612
16128	4,20758,05147,6543
	2,69271,4648
16129	4,20760,74419,1191
	2,69254,7704
16130	4,20763,43673,8896
	2,69238,0782
16131	4,20766,12911,9678
	2,69221,3879
16132	4,20768,82133,3558
	2,69204,6998
16133	4,20771,51338,0557
	2,69188,0137
16134	4,20774,20526,0695
	2,69171,3297
16135	4,20776,89697,3992
	2,69154,6478
16136	4,20779,58852,0471
	2,69137,9679
16137	4,20782,27990,0151
	2,69121,2901
16138	4,20784,97111,3053
	2,69104,6144
16139	4,20787,66215,9197
	2,69087,9407
16140	4,20790,35303,8605
	2,69071,2691
16141	4,20793,04375,1297
	2,69054,5996
16142	4,20795,73429,7293
	2,69037,9321
16143	4,20798,42467,6615
	2,69021,2667
16144	4,20801,11488,9283
	2,69004,6034
16145	4,20803,80493,5317
	2,68987,9421
16146	4,20806,49481,4739
	2,68971,2829
16147	4,20809,18452,7569
	2,68954,6258
16148	4,20811,87407,3828
	2,68937,9707
16149	4,20814,56345,3535
	2,68921,3177
16150	4,20817,25266,6712
	2,68904,6667
16151	4,20819,94171,3380
	2,68888,0178
16152	4,20822,63059,3559
	2,68871,3710
16153	4,20825,31930,7269
	2,68854,7262
16154	4,20828,00785,4532
	2,68838,0835
16155	4,20830,69623,5367
	2,68821,4428
16156	4,20833,38444,9796
	2,68804,8042
16157	4,20836,07249,7839
	2,68788,1677
16158	4,20838,76037,9516
	2,68771,5332
16159	4,20841,44809,4849
	2,68754,9008
16160	4,20844,13564,3857
	2,68738,2704
16161	4,20846,82302,6562
	2,68721,6421
16162	4,20849,51024,2984
	2,68705,0159
16163	4,20852,19729,3143
	2,68688,3917
16164	4,20854,88417,7061
	2,68671,7696
16165	4,20857,57089,4757
	2,68655,1495
16166	4,20860,25744,6253
	2,68638,5315
16167	4,20862,94383,1569
	2,68621,9156
16168	4,20865,63005,0725
	2,68605,3016
16169	4,20868,31610,3742
	2,68588,6898
16170	4,20871,00199,0640
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16171	4,20873,68771,1441
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16172	4,20876,37326,6164
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16173	4,20879,05865,4830
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16174	4,20881,74387,7460
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16175	4,20884,42893,4074
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16176	4,20887,11382,4693
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16177	4,20889,79854,9337
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16178	4,20892,48310,8027
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16179	4,20895,16750,0783
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16180	4,20897,85172,7626
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16181	4,20900,53578,8576
	2,68389,5078
16182	4,20903,21968,3654
	2,68372,9226
16183	4,20905,90341,2880
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16184	4,20908,58697,6275
	2,68339,7584
16185	4,20911,27037,3859
	2,68323,1793
16186	4,20913,95360,5653
	2,68306,6024
16187	4,20916,63667,1677
	2,68299,0275
16188	4,20919,31957,1952
	2,68273,4546
16189	4,20922,00230,6499
	2,68256,8838
16190	4,20924,68487,5337
	2,68240,3150
16191	4,20927,36727,8487
	2,68223,7482
16192	4,20930,04951,5970
	2,68207,1836
16193	4,20932,73158,7806
	2,68190,6209
16194	4,20935,41349,4016
	2,68174,0603
16195	4,20938,09523,4620
	2,68157,5017
16196	4,20940,77680,9638
	2,68140,9452
16197	4,20943,45821,9091
	2,68124,3908
16198	4,20946,13946,2999
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16199	4,20948,82054,1383
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16200	4,20951,50145,4163
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16204	4,20962, 22345, 1154 2, 68008, 5668
16205	4,20964, 90353, 6822 2, 67992, 0287
16206	4,20967, 58345, 7109 2, 67975, 4926
16207	4,20970, 26321, 2035 2, 67958, 9585
16208	4,20972, 94280, 1620 2, 67942, 4265
16209	4,20975, 62222, 5885 2, 67925, 8966
16210	4,20978, 30148, 4851 2, 67909, 3686
16211	4,20980, 98057, 8537 2, 67892, 8428
16212	4,20983, 65950, 6965 2, 67876, 3189
16213	4,20986, 33827, 0154 2, 67859, 7971
16214	4,20989, 01686, 8125 2, 67843, 2773
16215	4,20991, 69530, 0898 2, 67826, 7596
16216	4,20994, 37356, 8494 2, 67810, 2439
16217	4,20997, 05167, 0933 2, 67793, 7303
16218	4,20999, 72960, 8236 2, 67777, 2187
16219	4,21002, 40738, 0423 2, 67760, 7091
16220	4,21005, 08498, 7514 2, 67744, 2015
16221	4,21007, 76242, 9529 2, 67727, 6960
16222	4,21010, 43970, 6489 2, 67711, 1925
16223	4,21013, 11681, 8414 2, 67694, 6910
16224	4,21015, 79376, 5324 2, 67678, 1916
16225	4,21018, 47054, 7240 2, 67661, 6943
16226	4,21021, 14716, 4183 2, 67645, 1989
16227	4,21023, 82361, 6172 2, 67628, 7056
16228	4,21026, 49990, 3228 2, 67612, 2144
16229	4,21029, 17602, 5372 2, 67595, 7251
16230	4,21031, 85198, 2624 2, 67579, 2378
16231	4,21034, 52777, 5002 2, 67562, 7526
16232	4,21037, 20340, 2528 2, 67546, 2695
16233	4,21039, 87886, 5223 2, 67529, 7884
16234	4,21042, 55416, 3107 2, 67513, 3093
16235	4,21045, 22929, 6200 2, 67496, 8323
16236	4,21047, 90426, 4523 2, 67480, 3573
16237	4,21050, 57906, 8096 2, 67463, 8843
16238	4,21053, 25370, 6939 2, 67447, 4133
16239	4,21055, 92818, 1072 2, 67430, 9444
16240	4,21058, 60249, 0516 2, 67414, 4774
16241	4,21061, 27663, 5290 2, 67398, 0125
16242	4,21063, 95061, 5415 2, 67381, 5496
16243	4,21066, 62443, 0911 2, 67365, 0888
16244	4,21069, 29808, 1799 2, 67348, 6300
16245	4,21071, 97156, 8099 2, 67332, 1733
16246	4,21074, 64488, 9832 2, 67315, 7185
16247	4,21077, 31804, 7017 2, 67299, 2658
16248	4,21079, 99103, 9675 2, 67282, 8151
16249	4,21082, 66386, 7826 2, 67266, 3663
16250	4,21085, 33653, 1489 2, 67249, 9197
16251	4,21088, 00903, 0686 2, 67233, 4751
16252	4,21090, 68136, 5437 2, 67217, 0325
16253	4,21093, 35353, 5762 2, 67200, 5918
16254	4,21096, 02554, 1680 2, 67184, 1533
16255	4,21098, 69738, 3213 2, 67167, 7168
16256	4,21101, 36906, 0381 2, 67151, 2823
16257	4,21104, 04057, 3204 2, 67134, 8499
16258	4,21106, 71192, 1703 2, 67118, 4194
16259	4,21109, 38310, 5897 2, 67101, 9909
16260	4,21112, 05412, 5806 2, 67085, 5644
16261	4,21114, 72498, 1450 2, 67069, 1400
16262	4,21117, 39567, 2850 2, 67052, 7176
16263	4,21120, 06620, 0026 2, 67036, 2972
16264	4,21122, 73656, 2998 2, 67019, 8788
16265	4,21125, 40676, 1786 2, 67003, 4626
16266	4,21128, 07679, 6412 2, 66987, 0483
16267	4,21130, 74666, 6895 2, 66970, 6360
16268	4,21133, 41637, 3255 2, 66954, 2257
16269	4,21136, 08591, 5512 2, 66937, 8174
16270	4,21138, 75529, 3686 2, 66921, 4112
16271	4,21141, 42450, 7798 2, 66905, 0070
16272	4,21144, 09355, 7868 2, 66888, 6047
16273	4,21146, 76244, 3915 2, 66872, 2045
16274	4,21149, 43116, 5960 2, 66855, 8063
16275	4,21152, 09972, 4023 2, 66839, 4102
16276	4,21154, 76811, 8125 2, 66823, 0160
16277	4,21157, 43634, 8285 2, 66806, 6239
16278	4,21160, 10441, 4524 2, 66790, 2338
16279	4,21162, 77231, 6862 2, 66773, 8457
16280	4,21165, 44005, 5319 2, 66757, 4595
16281	4,21168, 10762, 9914 2, 66741, 0755
16282	4,21170, 77504, 0669 2, 66724, 6934
16283	4,21173, 44228, 7603 2, 66708, 3133
16284	4,21176, 10937, 0736 2, 66691, 9352
16285	4,21178, 77629, 0088 2, 66675, 5593
16286	4,21181, 44304, 5681 2, 66659, 1853
16287	4,21184, 10963, 7534 2, 66642, 8132
16288	4,21186, 77606, 5666 2, 66626, 4433
16289	4,21189, 44233, 0099 2, 66610, 0753
16290	4,21192, 10843, 0852 2, 66593, 7092
16291	4,21194, 77436, 7944 2, 66577, 3452
16292	4,21197, 44014, 1396 2, 66560, 9833
16293	4,21200, 10575, 1229 2, 66544, 6233
16294	4,21202, 77119, 7462 2, 66528, 2654
16295	4,21205, 43648, 0116 2, 66511, 9094
16296	4,21208, 10159, 9210 2, 66495, 5555
16297	4,21210, 76655, 4765 2, 66479, 2036
16298	4,21213, 43134, 6801 2, 66462, 8537
16299	4,21216, 09597, 5338 2, 66446, 5058
16300	4,21218, 76044, 0396 2, 66430, 1599

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16303	4,21226, 75285,4895 2,66381,1341
16304	4,21229, 41666,6236 2,66364,7962
16305	4,21232, 08031,4198 2,66348,4604
16306	4,21234, 74379,8802 2,66332,1265
16307	4,21237, 40712,0067 2,66315,7946
16308	4,21240, 07027,8013 2,66299,4647
16309	4,21242, 73327,2660 2,66283,1369
16310	4,21245, 39610,4029 2,66266,8110
16311	4,21248, 05877,2139 2,66250,4871
16312	4,21250, 72127,7010 2,66234,1652
16313	4,21253, 38361,8662 2,66217,8454
16314	4,21256, 04579,7116 2,66201,5275
16315	4,21258, 70781,2391 2,66185,2116
16316	4,21261, 36966,4507 2,66168,8978
16317	4,21264, 03135,3485 2,66152,5859
16318	4,21266, 69287,9344 2,66136,2760
16319	4,21269, 35424,2104 2,66119,9681
16320	4,21272, 01544,1785 2,66103,6623
16321	4,21274, 67647,8408 2,66087,3584
16322	4,21277, 33735,1992 2,66071,0565
16323	4,21279, 99806,2557 2,66054,7567
16324	4,21282, 65861,0124 2,66038,4588
16325	4,21285, 31899,4712 2,66022,1629
16326	4,21287, 97921,6341 2,66005,8690
16327	4,21290, 63927,5031 2,65989,5771
16328	4,21293, 29917,0802 2,65973,2872
16329	4,21295, 95890,3674 2,65956,9993
16330	4,21298, 61847,3667 2,65939,7134
16331	4,21301, 27788,0801 2,65924,4295
16332	4,21303, 93712,5096 2,65908,1476
16333	4,21306, 59620,6572 2,65891,8676
16334	4,21309, 25512,5248 2,65875,5897

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16334	4,21309, 25512,5248 2,65875,5897
16335	4,21311, 91388,1145 2,65859,3138
16336	4,21314, 57247,4283 2,65843,0398
16337	4,21317, 23092,4951 2,65826,7679
16338	4,21319, 88917,2360 2,65810,4979
16339	4,21322, 54727,7339 2,65794,2300
16340	4,21325, 20521,9639 2,65777,9640
16341	4,21327, 86299,9279 2,65761,7000
16342	4,21330, 52061,6279 2,65745,4380
16343	4,21333, 17807,0659 2,65729,1780
16344	4,21335, 83536,2439 2,65712,9200
16345	4,21338, 49249,1639 2,65696,6639
16346	4,21341, 14945,8278 2,65680,4099
16347	4,21343, 80626,2377 2,65664,1579
16348	4,21346, 46290,3956 2,65647,9078
16349	4,21349, 11938,3034 2,65631,6597
16350	4,21351, 77569,9631 2,65615,4136
16351	4,21354, 43185,3767 2,65599,1695
16352	4,21357, 08784,5462 2,65582,9274
16353	4,21359, 74367,4736 2,65566,6873
16354	4,21362, 39934,1609 2,65550,4491
16355	4,21365, 05484,6100 2,65534,2130
16356	4,21367, 71018,8230 2,65517,9788
16357	4,21370, 36536,8018 2,65501,7466
16358	4,21373, 02038,5484 2,65485,5164
16359	4,21375, 67524,0648 2,65469,2882
16360	4,21378, 32993,3530 2,65453,0620
16361	4,21380, 98446,4150 2,65436,8377
16362	4,21383, 63883,2527 2,65420,6155
16363	4,21386, 29303,8682 2,65404,3952
16364	4,21388, 94708,2634 2,65388,1768
16365	4,21391, 60096,4402 2,65371,9605
16366	4,21394, 25468,4007 2,65355,7462
16367	4,21396, 90824,1469 2,65339,5338

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16369	4,21402, 21487,0042 2,65307,1151
16370	4,21404, 86794,1193 2,65290,9086
16371	4,21407, 52085,0279 2,65274,7042
16372	4,21410, 17359,7321 2,65258,5018
16373	4,21412, 82618,2339 2,65242,3014
16374	4,21415, 47860,5353 2,65226,1029
16375	4,21418, 13086,6382 2,65209,9063
16376	4,21420, 78296,5445 2,65193,7117
16377	4,21423, 43490,2562 2,65177,5192
16378	4,21426, 08667,7754 2,65161,3286
16379	4,21428, 73829,1040 2,65145,1400
16380	4,21431, 38974,2440 2,65128,9535
16381	4,21434, 04103,1975 2,65112,7688
16382	4,21436, 69215,9663 2,65096,5860
16383	4,21439, 34312,5523 2,65080,4053
16384	4,21441, 99392,9576 2,65064,2264
16385	4,21444, 64457,1840 2,65048,0498
16386	4,21447, 29505,2338 2,65031,8751
16387	4,21449, 94537,1089 2,65015,7023
16388	4,21452, 59552,8112 2,64999,5314
16389	4,21455, 24552,3426 2,64983,3625
16390	4,21457, 89535,7051 2,64967,1957
16391	4,21460, 54502,9008 2,64951,0307
16392	4,21463, 19453,9315 2,64934,8678
16393	4,21465, 84388,7993 2,64918,7068
16394	4,21468, 49307,5061 2,64902,5478
16395	4,21471, 14210,0539 2,64886,3908
16396	4,21473, 79096,4447 2,64870,2357
16397	4,21476, 43966,6804 2,64854,0827
16398	4,21479, 08820,7631 2,64837,9315
16399	4,21481, 73658,6946 2,64821,7824
16400	4,21484, 38480,4770 2,64805,6352

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16404	4,21494,97606,1544
	2,64741,0662
16405	4,21497,62347,2206
	2,64724,9288
16406	4,21500,27072,1494
	2,64708,7935
16407	4,21502,91780,9429
	2,64692,6601
16408	4,21505,56473,6030
	2,64676,5287
16409	4,21508,21150,1317
	2,64660,3993
16410	4,21510,85810,5310
	2,64644,2716
16411	4,21513,50454,8026
	2,64628,1461
16412	4,21516,15082,9487
	2,64612,0225
16413	4,21518,79694,9712
	2,64595,9010
16414	4,21521,44290,8722
	2,64579,7814
16415	4,21524,08870,6536
	2,64563,6636
16416	4,21526,73434,3172
	2,64547,5479
16417	4,21529,37981,8651
	2,64531,4342
16418	4,21532,02513,2993
	2,64515,3224
16419	4,21534,67028,6217
	2,64499,2126
16420	4,21537,31527,8343
	2,64483,1047
16421	4,21539,96010,9390
	2,64466,9988
16422	4,21542,60477,9378
	2,64450,8948
16423	4,21545,24928,8326
	2,64434,7928
16424	4,21547,89363,6254
	2,64418,6928
16425	4,21550,53782,3182
	2,64402,5948
16426	4,21553,18184,9130
	2,64386,4987
16427	4,21555,82571,4117
	2,64370,4045
16428	4,21558,46941,8162
	2,64354,3123
16429	4,21561,11296,1285
	2,64338,2221
16430	4,21563,75634,3506
	2,64322,1339
16431	4,21566,39956,4845
	2,64306,0476
16432	4,21569,04262,5321
	2,64289,9632
16433	4,21571,68552,4953
	2,64273,8808
16434	4,21574,32826,3761
	2,64257,8004
16435	4,21576,97084,1765
	2,64241,7219
16436	4,21579,61325,8984
	2,64225,6454
16437	4,21582,25551,5438
	2,64209,5708
16438	4,21584,89761,1146
	2,64193,4982
16439	4,21587,53954,6128
	2,64177,4275
16440	4,21590,18132,0403
	2,64161,3589
16441	4,21592,82293,3992
	2,64145,2921
16442	4,21595,46438,6913
	2,64129,2274
16443	4,21598,10567,9187
	2,64113,1645
16444	4,21600,74681,0832
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16445	4,21603,38778,1868
	2,64081,0447
16446	4,21606,02859,2315
	2,64064,9877
16447	4,21608,66924,2192
	2,64048,9327
16448	4,21611,30973,1519
	2,64032,8796
16449	4,21613,95006,0315
	2,64016,8284
16450	4,21616,59022,8599
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16451	4,21619,23023,6392
	2,63984,7321
16452	4,21621,87008,3713
	2,63968,6869
16453	4,21624,50977,0582
	2,63952,6435
16454	4,21627,14929,7017
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16455	4,21629,78866,3039
	2,63920,5627
16456	4,21632,42786,8666
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16457	4,21635,06691,3919
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16458	4,21637,70579,8817
	2,63872,4562
16459	4,21640,34452,3379
	2,63856,4246
16460	4,21642,98308,7625
	2,63840,3949
16461	4,21645,62149,1574
	2,63824,3672
16462	4,21648,25973,5246
	2,63808,3414
16463	4,21650,89781,8660
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16464	4,21653,53574,1836
	2,63776,2957
16465	4,21656,17350,4793
	2,63760,2758
16466	4,21658,81110,7551
	2,63744,2577
16467	4,21661,44855,0128
	2,63728,2417
16468	4,21664,08583,2545
	2,63712,2276
16469	4,21666,72295,4821
	2,63696,2154
16470	4,21669,35991,6975
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16471	4,21671,99671,9027
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16472	4,21674,63336,1995
	2,63648,1907
16473	4,21677,26985,1902
	2,63632,1863
16474	4,21679,90617,3765
	2,63615,2838
16475	4,21682,54232,6605
	2,63600,1832
16476	4,21685,17832,8437
	2,63584,1848
16477	4,21687,81417,0285
	2,63568,1882
16478	4,21690,44985,2167
	2,63552,1935
16479	4,21693,08537,4102
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	2,63504,2211
16482	4,21700,99098,0420
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16483	4,21703,62586,2762
	2,63472,2493
16484	4,21706,26058,5255
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16486	4,21711,52955,0769
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16487	4,21714,16379,3829
	2,63408,3287
16488	4,21716,79787,7116
	2,63392,3535
16489	4,21719,43180,0651
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16490	4,21722,06556,4452
	2,63360,4087
16491	4,21724,69916,8539
	2,63344,4393
16492	4,21727,33261,2932
	2,63328,4717
16493	4,21729,96589,7649
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16494	4,21732,59902,2711
	2,63296,5426
16495	4,21735,23198,8137
	2,63280,5808
16496	4,21737,86479,3945
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16497	4,21740,49744,0155
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16498	4,21743,12992,6787
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16499	4,21745,76225,3859
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16504	4,21758,92149,6510
	2,63137,0123
16505	4,21761,55286,6633
	2,63121,0700
16506	4,21764,18407,7333
	2,63105,1295
16507	4,21766,81512,8628
	2,63089,1910
16508	4,21769,44602,0538
	2,63073,2544
16509	4,21772,07675,3082
	2,63057,3198
16510	4,21774,70732,6280
	2,63041,3870
16511	4,21777,33774,0150
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16736	4,22365, 16671,8717
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16737	4,22367, 76161,3002
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16738	4,22370, 35635,2252
	2, 59458,4235
16739	4,22372, 95093,6487
	2, 59442,9237
16740	4,22375, 54536,5724
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16741	4,22378, 13963,9983
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16742	4,22380, 73375,9278
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16743	4,22383, 32772,3632
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16745	4,22388, 51518,7589
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16782	4,22484, 37167,5518
	2, 58778,1808
16783	4,22486, 95945,7326
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	2, 58747,3455
16785	4,22492, 13455,8404
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	2, 58701,1062
16788	4,22499, 89605,3946
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16789	4,22502, 48291,0914
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16790	4,22505, 06961,3806
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16792	4,22510, 24255,7435
	2, 58624,0774
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16795	4,22518, 00081,7769
	2, 58577,8822
16796	4,22520, 58659,6591
	2, 58562,4874
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16805	4,22543,85168,0550
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16809	4,22554,18771,8724
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16810	4,22556,77134,3948
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16811	4,22559,35481,5481
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16812	4,22561,93813,3341
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16813	4,22564,52129,7546
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16814	4,22567,10430,8115
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16815	4,22569,68716,5066
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16816	4,22572,26986,8417
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16817	4,22574,85241,8186
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16818	4,22577,43481,4392
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16819	4,22580,01705,7054
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16820	4,22582,59914,6189
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16821	4,22585,18108,1815
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16822	4,22587,76286,3951
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	2,58147,5211
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	2,58132,1775
16825	4,22595,50728,9601
	2,58116,8358
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16905	4,22801, 51751,0179
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	2,55264,6322
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	2,55249,6295
17015	4,23083,19534,3184
	2,55234,6285
17016	4,23085,74768,9469
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17017	4,23088,29988,5761
	2,55204,6317
17018	4,23090,85193,2078
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17019	4,23093,40382,8438
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17020	4,23095,95557,4858
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17021	4,23098,50717,1357
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17022	4,23101,05861,7951
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	2,55069,7337
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17030	4,23121,46479,6262
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17031	4,23124,01489,4510
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17032	4,23126,56484,3028
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17033	4,23129,11464,1837
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17034	4,23131,66429,0953
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	2,54905,0518
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	2,54890,0912
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	2,54875,1325
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	2,54845,2202
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	2,54830,2667
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	2,54770,4702
17047	4,23164,79611,5360
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17048	4,23167,34367,0615
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17049	4,23169,89107,6440
	2,54725,6412
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	2,54710,7017
17051	4,23174,98543,9869
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17052	4,23177,53239,7511
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17055	4,23185,17237,4342
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17061	4,23200,44829,7183
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17063	4,23205,53907,7659
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	2,54501,7328
17065	4,23210,62926,1465
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	2,54412,2797
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17073	4,23230,98403,2798
	2,54367,5767
17074	4,23233,52770,8565
	2,54352,6792
17075	4,23236,07123,5357
	2,54337,7834
17076	4,23238,61461,3191
	2,54322,8894
17077	4,23241,15784,2085
	2,54307,9971
17078	4,23243,70092,2056
	2,54293,1065
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	2,54278,2178
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	2,54263,3307
17081	4,23251,32926,8606
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17082	4,23253,87175,3060
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17087	4,23266,58194,3144
	2,54159,1702
17088	4,23269,12353,4846
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17089	4,23271,66497,7816
	2,54129,4257
17090	4,23274,20627,2073
	2,54114,5561
17091	4,23276,74741,7634
	2,54099,6882
17092	4,23279,28841,4516
	2,54084,8220
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	2,54069,9576
17094	4,23284,36996,2312
	2,54055,0949
17095	4,23286,91051,3261
	2,54040,2340
17096	4,23289,45091,5601
	2,54025,3748
17097	4,23291,99116,9349
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17098	4,23294,53127,4522
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17105	4,23312,30785,2108
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17106	4,23314,84676,9310
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17107	4,23317,38553,8094
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17108	4,23319,92415,8477
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17109	4,23322,46263,0476
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17110	4,23325,00095,4110
	2,53817,5285
17111	4,23327,53912,9395
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17112	4,23330,07715,6348
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17113	4,23332,61503,4987
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17114	4,23335,15276,5328
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17115	4,23337,69034,7390
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17116	4,23340,22778,1190
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17117	4,23342,76506,6745
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17121	4,23352,91272,6862
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17122	4,23355,44927,1452
	2,53639,6449
17123	4,23357,98566,7901
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17124	4,23360,52191,6227
	2,53610,0219
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17129	4,23373,20093,6605
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17130	4,23375,73629,6551
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17131	4,23378,27150,8495
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17132	4,23380,80657,2453
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17133	4,23383,34148,8443
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17136	4,23390,94534,8778
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17140	4,23401,08175,8718
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17141	4,23403,61549,1585
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17156	4,23441,60375,6705
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17157	4,23444,13512,6635
	2,53122,2393
17158	4,23446,66634,9028
	2,53107,4872
17159	4,23449,19742,3900
	2,53092,7369
17160	4,23451,72835,1269
	2,53077,9885
17161	4,23454,25913,1154
	2,53063,2416
17162	4,23456,78976,3570
	2,53048,4964
17163	4,23459,32024,8534
	2,53033,7530
17164	4,23461,85058,6064
	2,53019,0112
17165	4,23464,38077,6176
	2,53004,2714
17166	4,23466,91081,8890
	2,52989,5331
17167	4,23469,44071,4221
	2,52974,7966
17167	4,23469,44071,4221
	2,52974,7966
17168	4,23471,97046,2187
	2,52960,0618
17169	4,23474,50006,2805
	2,52945,3286
17170	4,23477,02951,6091
	2,52930,5973
17171	4,23479,55882,2064
	2,52915,8676
17172	4,23482,08798,0740
	2,52901,1396
17173	4,23484,61699,2136
	2,52886,4135
17174	4,23487,14585,6271
	2,52871,6883
17175	4,23489,67457,3159
	2,52856,9661
17176	4,23492,20314,2820
	2,52842,2449
17177	4,23494,73156,5269
	2,52827,5256
17178	4,23497,25984,0525
	2,52812,8079
17179	4,23499,78796,8604
	2,52798,0919
17180	4,23502,31594,9523
	2,52783,3777
17181	4,23504,84378,3300
	2,52768,6652
17182	4,23507,37146,9952
	2,52753,9543
17183	4,23509,89900,9495
	2,52739,2452
17184	4,23512,42640,1947
	2,52724,5378
17185	4,23514,95364,7325
	2,52709,8321
17186	4,23517,48074,5646
	2,52695,1282
17187	4,23520,00769,6928
	2,52680,4259
17188	4,23522,53450,1187
	2,52665,7253
17189	4,23525,06115,8440
	2,52651,0265
17190	4,23527,58766,8705
	2,52636,3294
17191	4,23530,11403,1999
	2,52621,6340
17192	4,23532,64024,8339
	2,52606,9403
17193	4,23535,16631,7742
	2,52592,2482
17194	4,23537,69224,0224
	2,52577,5579
17195	4,23540,21801,5803
	2,52562,8694
17196	4,23542,74364,4497
	2,52548,1826
17197	4,23545,26912,6323
	2,52533,4974
17198	4,23547,79446,1297
	2,52518,8137
17199	4,23550,31964,9434
	2,52504,1329
17200	4,23552,84469,0755
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	2,52474,7737
17202	4,23557,89433,3013
	2,52460,0971
17203	4,23560,41893,3984
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17204	4,23562,94338,8206
	2,52430,7489
17205	4,23565,46769,5695
	2,52416,0775
17206	4,23567,99185,6470
	2,52401,4076
17207	4,23570,51587,0546
	2,52386,7395
17208	4,23573,03973,7941
	2,52372,0731
17209	4,23575,56345,8672
	2,52357,4084
17210	4,23578,08703,2756
	2,52342,7454
17211	4,23580,61046,0210
	2,52328,0841
17212	4,23583,13374,1051
	2,52313,4246
17213	4,23585,65687,5297
	2,52298,7667
17214	4,23588,17986,2964
	2,52284,1105
17215	4,23590,70270,4069
	2,52269,4560
17216	4,23593,22539,8629
	2,52254,8033
17217	4,23595,74794,6662
	2,52240,1522
17218	4,23598,27034,8184
	2,52225,5028
17219	4,23600,79260,3212
	2,52210,8552
17220	4,23603,31471,1764
	2,52196,2092
17221	4,23605,83667,3856
	2,52181,5649
17222	4,23608,35848,9505
	2,52166,9224
17223	4,23610,88015,8729
	2,52152,2815
17224	4,23613,40168,1544
	2,52137,6423
17225	4,23615,92305,7967
	2,52123,0049
17226	4,23618,44428,8016
	2,52108,3691
17227	4,23620,96537,1707
	2,52093,7350
17228	4,23623,48630,9057
	2,52079,1026
17229	4,23626,00710,0083
	2,52064,4720
17230	4,23628,52774,4803
	2,52049,8430
17231	4,23631,04824,3233
	2,52035,2157
17232	4,23633,56859,5390
	2,52020,5902
17233	4,23636,08880,1292
	2,52005,9663
17234	4,23638,60886,0955
	2,51991,3442
17235	4,23641,12877,4397
	2,51976,7236
17236	4,23643,64854,1633
	2,51962,1048
17237	4,23645,16816,2681
	2,51947,4877
17238	4,23648,68763,7558
	2,51932,8724
17239	4,23651,20696,6282
	2,51918,2587
17240	4,23653,72614,8869
	2,51903,6466
17241	4,23656,24518,5335
	2,51889,0364
17242	4,23658,76407,5699
	2,51874,4277
17243	4,23661,28281,9976
	2,51859,8208
17244	4,23663,80141,8184
	2,51845,2156
17245	4,23666,31987,0340
	2,51830,6121
17246	4,23668,83817,6461
	2,51816,0102
17247	4,23671,35633,6563
	2,51801,4101
17248	4,23673,87435,0664
	2,51786,8116
17249	4,23676,39221,8780
	2,51772,2149
17250	4,23678,90994,0929
	2,51757,6198
17251	4,23681,42751,7127
	2,51743,0264
17252	4,23683,94494,7391
	2,51728,4347
17253	4,23686,46223,1738
	2,51713,8448
17254	4,23688,97937,9186
	2,51699,2565
17255	4,23691,49636,2751
	2,51684,6698
17256	4,23694,01320,9449
	2,51670,0849
17257	4,23696,52991,0298
	2,51655,5018
17258	4,23699,04646,5316
	2,51640,9201
17259	4,23701,56287,4517
	2,51626,3402
17260	4,23704,07913,7919
	2,51611,7621
17261	4,23706,59525,5540
	2,51597,1856
17262	4,23709,11122,7396
	2,51582,6108
17263	4,23711,62705,3504
	2,51568,0378
17264	4,23714,14273,3882
	2,51553,4664
17265	4,23716,65826,8546
	2,51538,8966
17266	4,23719,17365,7512
	2,51524,3286
17267	4,23721,68890,0798
	2,51509,7623
17268	4,23724,20399,8421
	2,51495,1977
17269	4,23726,71895,0398
	2,51480,6347
17270	4,23729,23375,6745
	2,51466,0734
17271	4,23731,74841,7479
	2,51451,5138
17272	4,23734,26293,2617
	2,51436,9559
17273	4,23736,77730,2176
	2,51422,3997
17274	4,23739,29152,6173
	2,51407,8451
17275	4,23741,80560,4624
	2,51393,2922
17276	4,23744,31953,7546
	2,51378,7411
17277	4,23746,83332,4957
	2,51364,1916
17278	4,23749,34696,6873
	2,51349,6438
17279	4,23751,86046,3311
	2,51335,0977
17280	4,23754,37381,4288
	2,51320,5532
17281	4,23756,88701,9820
	2,51306,0105
17282	4,23759,40007,9925
	2,51291,4694
17283	4,23761,91299,4619
	2,51276,9301
17284	4,23764,42576,3920
	2,51262,3923
17285	4,23766,93838,7843
	2,51247,8563
17286	4,23769,45086,6406
	2,51233,3220
17287	4,23771,96319,9626
	2,51218,7893
17288	4,23774,47538,7519
	2,51204,2583
17289	4,23776,98743,0102
	2,51189,7290
17290	4,23779,49932,7392
	2,51175,2014
17291	4,23782,01107,9406
	2,51160,6755
17292	4,23784,52268,6161
	2,51146,1512
17293	4,23787,03414,7673
	2,51131,6287
17294	4,23789,54546,3960
	2,51117,1078
17295	4,23792,05663,5038
	2,51102,5885
17296	4,23794,56766,0923
	2,51088,0710
17297	4,23797,07854,1633
	2,51073,5552
17298	4,23799,58927,7185
	2,51059,0410
17299	4,23802,09986,7595
	2,51044,5285
17300	4,23804,61031,2880
	2,51030,0177

Num. absolut.	Logarithmi.
17501	4,24306,28648,0481
	2,48147,0057
17502	4,24308,76795,0538
	2,48132,8279
17503	4,24311,24927,8817
	2,48118,6517
17504	4,24313,73046,5334
	2,48104,4771
17505	4,24316,21151,0105
	2,48090,3042
17506	4,24318,69241,3147
	2,48076,1329
17507	4,24321,17317,4476
	2,48061,9631
17508	4,24323,65379,4107
	2,48047,7951
17509	4,24326,23427,2058
	2,48033,6286
17510	4,24328,61460,8344
	2,48019,4638
17511	4,24331,09480,2982
	2,48005,3005
17512	4,24333,57485,5987
	2,47991,1389
17513	4,24336,05476,7376
	2,47976,9789
17514	4,24338,53453,7165
	2,47962,8206
17515	4,24341,01416,5371
	2,47948,6638
17516	4,24343,49365,2009
	2,47934,5086
17517	4,24345,97299,7095
	2,47920,3551
17518	4,24348,45220,0646
	2,47906,2032
17519	4,24350,93126,2678
	2,47892,0528
17520	4,24353,41018,3206
	2,47877,9042
17521	4,24355,88896,2248
	2,47863,7571
17522	4,24358,36759,9819
	2,47849,6116
17523	4,24360,84609,5935
	2,47835,4678
17524	4,24363,32445,0613
	2,47821,3256
17525	4,24365,80266,3869
	2,47807,1850
17526	4,24368,28073,5719
	2,47793,0460
17527	4,24370,75866,6179
	2,47778,9086
17528	4,24373,23645,5265
	2,47764,7728
17529	4,24375,71410,2993
	2,47750,6386
17530	4,24378,19160,9379
	2,47736,5061
17531	4,24380,66897,4440
	2,47722,3752
17532	4,24383,14619,8192
	2,47708,2459
17533	4,24385,62328,0651
	2,47694,1181
17534	4,24388,10022,1832
	2,47679,9920

Num. absolut.	Logarithmi.
17534	4,24388,10022,1832
	2,47679,9920
17535	4,24390,57702,1752
	2,47665,8675
17536	4,24393,05368,0427
	2,47651,7447
17537	4,24395,53019,7874
	2,47637,6234
17538	4,24398,00657,4108
	2,47623,5037
17539	4,24400,48280,9145
	2,47609,3857
17540	4,24402,95890,3002
	2,47595,2692
17541	4,24405,43485,5694
	2,47581,1544
17542	4,24407,91066,7238
	2,47567,0412
17543	4,24410,38633,7650
	2,47552,9296
17544	4,24412,86186,6946
	2,47538,8196
17545	4,24415,33725,5142
	2,47524,7112
17546	4,24417,81250,2254
	2,47510,6044
17547	4,24420,28760,8298
	2,47496,4992
17548	4,24422,76257,3290
	2,47482,3957
17549	4,24425,23739,7247
	2,47468,2937
17550	4,24427,71208,0184
	2,47454,1933
17551	4,24430,18662,2117
	2,47440,0946
17552	4,24432,66102,3063
	2,47425,9974
17553	4,24435,13528,3037
	2,47411,9019
17554	4,24437,60940,2056
	2,47397,8080
17555	4,24440,08338,0136
	2,47383,7157
17556	4,24442,55721,7293
	2,47369,6249
17557	4,24445,03091,3542
	2,47355,5358
17558	4,24447,50446,8900
	2,47341,4484
17559	4,24449,97788,3384
	2,47327,3624
17560	4,24452,45115,7008
	2,47313,2781
17561	4,24454,92428,9789
	2,47299,1954
17562	4,24457,39728,1743
	2,47285,1143
17563	4,24459,87013,2886
	2,47271,0349
17564	4,24462,34284,3235
	2,47256,9570
17565	4,24464,81541,2805
	2,47242,8807
17566	4,24467,28784,1612
	2,47228,8060
17567	4,24469,76012,9672
	2,47214,7329

Num. absolut.	Logarithmi.
17567	4,24469,76012,9672
	2,47214,7329
17568	4,24472,23227,7001
	2,47200,6614
17569	4,24474,70428,3615
	2,47186,5916
17570	4,24477,17614,9531
	2,47172,5233
17571	4,24479,64787,4764
	2,47158,4566
17572	4,24482,11945,9330
	2,47144,3915
17573	4,24484,59090,3245
	2,47130,3280
17574	4,24487,06220,6525
	2,47116,2662
17575	4,24489,53336,9187
	2,47102,2059
17576	4,24492,00439,1246
	2,47088,1473
17577	4,24494,47527,2719
	2,47074,0902
17578	4,24496,94601,3621
	2,47060,0347
17579	4,24499,41661,3968
	2,47045,9808
17580	4,24501,88707,3776
	2,47031,9287
17581	4,24504,35739,3063
	2,47017,8780
17582	4,24506,82757,1843
	2,47003,8288
17583	4,24509,29761,0131
	2,46989,7812
17584	4,24511,76750,7943
	2,46975,7354
17585	4,24514,23726,5297
	2,46961,6912
17586	4,24516,70688,2209
	2,46947,6485
17587	4,24519,17635,8694
	2,46933,6074
17588	4,24521,64569,4768
	2,46919,5679
17589	4,24524,11489,0447
	2,46905,5300
17590	4,24526,58394,5747
	2,46891,4937
17591	4,24529,05286,0684
	2,46877,4590
17592	4,24531,52163,5274
	2,46863,4259
17593	4,24533,99026,9533
	2,46849,3944
17594	4,24536,45876,3477
	2,46835,3645
17595	4,24538,92711,7122
	2,46821,3361
17596	4,24541,39533,0483
	2,46807,3094
17597	4,24543,86340,3577
	2,46793,2843
17598	4,24546,33133,6420
	2,46779,2607
17599	4,24548,79912,9027
	2,46765,2388
17600	4,24551,26678,1415
	2,46751,2185

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	2,46737,1997
17602	4,24556,20166,5597
	2,46723,1825
17603	4,24558,66889,7422
	2,46709,1669
17604	4,24561,13598,9091
	2,46695,1530
17605	4,24563,60294,0621
	2,46681,1406
17606	4,24566,06975,2027
	2,46667,1298
17607	4,24568,53642,3325
	2,46653,1205
17608	4,24571,00295,4530
	2,46639,1129
17609	4,24573,46934,5659
	2,46625,1069
17610	4,24575,93559,6728
	2,46611,1025
17611	4,24578,40170,7753
	2,46597,0996
17612	4,24580,86767,8749
	2,46583,0984
17613	4,24583,33350,9733
	2,46569,0987
17614	4,24585,79920,0720
	2,46555,1006
17615	4,24588,26475,1726
	2,46541,0041
17616	4,24590,73016,1767
	2,46527,0093
17617	4,24593,19543,1860
	2,46513,1159
17618	4,24595,66056,3019
	2,46499,1243
17619	4,24598,12555,4262
	2,46485,1341
17620	4,24600,59040,7603
	2,46471,1456
17621	4,24602,05511,9059
	2,46457,1586
17622	4,24605,51969,0645
	2,46443,1732
17623	4,24607,98412,2377
	2,46429,1894
17624	4,24610,44841,4271
	2,46415,2073
17625	4,24612,91256,6344
	2,46401,2266
17626	4,24615,37657,8610
	2,46387,2476
17627	4,24617,84045,1086
	2,46373,2702
17628	4,24620,30418,3788
	2,46359,2944
17629	4,24622,76777,6732
	2,46345,3201
17630	4,24625,23122,9933
	2,46331,3474
17631	4,24627,69454,3407
	2,46317,3763
17632	4,24630,15771,7170
	2,46303,4068
17633	4,24632,62075,1238
	2,46289,4388
17634	4,24635,08364,5626
	2,46275,4725
17635	4,24637,54640,0351
	2,46261,5078
17636	4,24640,00901,5429
	2,46247,5446
17637	4,24642,47149,0875
	2,46233,5830
17638	4,24644,93382,6705
	2,46219,6230
17639	4,24647,39602,2935
	2,46205,6645
17640	4,24649,85807,9580
	2,46191,7077
17641	4,24652,31999,6657
	2,46177,7525
17642	4,24654,78177,4182
	2,46163,7988
17643	4,24657,24341,2170
	2,46149,8467
17644	4,24659,70491,0637
	2,46125,8962
17645	4,24662,16626,9599
	2,46120,9473
17646	4,24664,62747,9072
	2,46107,9999
17647	4,24667,08855,9071
	2,46094,0541
17648	4,24669,54949,9612
	2,46080,1100
17649	4,24672,01030,0712
	2,46066,1673
17650	4,24674,47097,2385
	2,46052,2263
17651	4,24676,93149,4648
	2,46038,2868
17652	4,24679,39187,7516
	2,46024,3490
17653	4,24681,85212,1006
	2,46010,4126
17654	4,24684,31222,5132
	2,45996,4880
17655	4,24686,77218,9912
	2,45982,5448
17656	4,24689,23201,5360
	2,45968,6132
17657	4,24691,69170,1492
	2,45954,6833
17658	4,24694,16124,8325
	2,45940,7549
17659	4,24696,61065,5874
	2,45926,8281
17660	4,24699,06992,4155
	2,45912,9028
17661	4,24701,52905,3183
	2,45898,9792
17662	4,24703,98804,2975
	2,45885,0570
17663	4,24706,44689,3545
	2,45871,1365
17664	4,24708,90560,4910
	2,45857,2176
17665	4,24711,36417,7086
	2,45843,3002
17666	4,24713,82261,0088
	2,45829,3844
17667	4,24716,28090,3932
	2,45815,4702
17668	4,24718,73905,8634
	2,45801,5576
17669	4,24721,19707,4210
	2,45787,6466
17670	4,24723,65495,0676
	2,45773,7370
17671	4,24726,11268,8046
	2,45759,8291
17672	4,24728,57028,6337
	2,45745,9228
17673	4,24731,02774,5565
	2,45732,0180
17674	4,24733,48506,5745
	2,45718,1148
17675	4,24735,94224,6893
	2,45704,2132
17676	4,24738,39928,9025
	2,45690,3131
17677	4,24740,85619,2156
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17678	4,24743,31295,6303
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17679	4,24745,76958,1481
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17680	4,24748,22606,7705
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17682	4,24753,13862,3357
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17685	4,24760,50641,5077
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17687	4,24765,41758,1602
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17688	4,24767,87295,6766
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17689	4,24770,32819,3218
	2,45509,7755
17690	4,24772,78329,0973
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17691	4,24775,23824,9748
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17692	4,24777,69306,9758
	2,45468,1260
17693	4,24780,14775,1018
	2,45454,2527
17694	4,24782,60229,3545
	2,45440,3809
17695	4,24785,05669,7354
	2,45426,5107
17696	4,24787,51096,2461
	2,45412,6420
17697	4,24789,96508,8881
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17698	4,24792,41907,6631
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17704	4,24807,14009,1920
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17705	4,24809,59310,9413
	2,45287,8947
17706	4,24812,04598,8360
	2,45274,0417
17707	4,24814,49872,8777
	2,45260,1903
17708	4,24816,95133,0680
	2,45246,3405
17709	4,24819,40379,4085
	2,45232,4922
17710	4,24821,85611,9007
	2,45218,6454
17711	4,24824,30830,5461
	2,45204,8003
17712	4,24826,76035,3464
	2,45190,9567
17713	4,24829,21226,3031
	2,45177,1146
17714	4,24831,66403,4177
	2,45163,2742
17715	4,24834,11566,6919
	2,45149,4353
17716	4,24836,56716,1272
	2,45135,5979
17717	4,24839,01851,7251
	2,45121,7621
17718	4,24841,46973,4872
	2,45107,9279
17719	4,24843,92081,4151
	2,45094,0952
17720	4,24846,37175,5103
	2,45080,2641
17721	4,24848,82255,7744
	2,45066,4346
17722	4,24851,27322,2090
	2,45052,6066
17723	4,24853,72374,8156
	2,45038,7802
17724	4,24856,17413,5958
	2,45024,9553
17725	4,24858,62438,5511
	2,45011,1320
17726	4,24861,07449,7031
	2,44997,3202
17727	4,24863,52447,0233
	2,44983,4901
17728	4,24865,97430,5134
	2,44969,6614
17729	4,24868,42400,1748
	2,44955,8344
17730	4,24870,87356,0092
	2,44942,0388
17731	4,24873,32298,0480
	2,44928,2249
17732	4,24875,77226,2729
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17733	4,24878,22140,6854
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17734	4,24880,67041,2871
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17736	4,24885,56801,0643
	2,44859,1785
17737	4,24888,01660,2428
	2,44845,3739
17738	4,24890,46505,6167
	2,44831,5705
17739	4,24892,91337,1876
	2,44817,7695
17740	4,24895,36154,9571
	2,44803,9694
17741	4,24897,80958,9265
	2,44790,1711
17742	4,24900,25749,0976
	2,44776,3743
17743	4,24902,70525,4719
	2,44762,5790
17744	4,24905,15288,0509
	2,44748,7853
17745	4,24907,60036,8362
	2,44734,9931
17746	4,24910,04771,8293
	2,44721,2025
17747	4,24912,49493,0318
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17748	4,24914,94200,4452
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17749	4,24917,38894,0711
	2,44679,8400
17750	4,24919,83573,9111
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17751	4,24922,28239,9667
	2,44652,2728
17752	4,24924,72892,2395
	2,44638,4915
17753	4,24927,17530,7310
	2,44624,7117
17754	4,24929,62155,4427
	2,44610,9336
17755	4,24932,06766,3763
	2,44597,1569
17756	4,24934,51363,5332
	2,44583,3819
17757	4,24936,95946,9151
	2,44569,6083
17758	4,24939,40516,5234
	2,44555,8364
17759	4,24941,85072,3598
	2,44542,0660
17760	4,24944,29614,4258
	2,44528,2971
17761	4,24946,74142,7229
	2,44514,5297
17762	4,24949,18657,2526
	2,44500,7639
17763	4,24951,63158,0165
	2,44486,9998
17764	4,24954,07645,0163
	2,44473,2371
17765	4,24956,52118,2534
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17768	4,24963,85455,4042
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17769	4,24966,29873,6061
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17770	4,24968,74278,0530
	2,44390,6935
17771	4,24971,18668,7465
	2,44376,9418
17772	4,24973,63045,6883
	2,44363,1915
17773	4,24976,07408,8798
	2,44349,4426
17774	4,24978,51758,3224
	2,44335,6955
17775	4,24980,96094,0179
	2,44321,9499
17776	4,24983,40415,9678
	2,44308,2058
17777	4,24985,84724,1736
	2,44294,4632
17778	4,24988,29018,6368
	2,44280,7222
17779	4,24990,73299,3590
	2,44266,9828
17780	4,24993,17566,3418
	2,44253,2448
17781	4,24995,61819,5866
	2,44239,5085
17782	4,24998,06059,0951
	2,44225,7737
17783	4,25000,50284,8688
	2,44212,0404
17784	4,25002,94496,9092
	2,44198,3086
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17788	4,25012,71207,7687
	2,44143,3972
17789	4,25015,15351,1659
	2,44129,6732
17790	4,25017,59480,8391
	2,44115,9507
17791	4,25020,03596,7898
	2,44102,2297
17792	4,25022,47699,0195
	2,44088,5104
17793	4,25024,91787,5299
	2,44074,7925
17794	4,25027,35862,3224
	2,44061,0762
17795	4,25029,79923,3986
	2,44047,3614
17796	4,25032,23970,7600
	2,44033,6482
17797	4,25034,68004,4082
	2,44019,9365
17798	4,25037,12024,3447
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17804	4,25051,75856,1050 2,43923,9978
17805	4,25054,19780,1028 2,43910,2985
17806	4,25056,63690,4013 2,43896,6007
17807	4,25059,07587,0020 2,43882,9044
17808	4,25061,51469,9064 2,43869,2097
17809	4,25063,95339,1161 2,43855,5165
17810	4,25066,39194,6326 2,43841,8248
17811	4,25068,83036,4574 2,43828,1346
17812	4,25071,26864,5920 2,43814,4460
17813	4,25073,70679,0380 2,43800,7590
17814	4,25076,14479,7970 2,43787,0735
17815	4,25078,58266,8705 2,43773,3895
17816	4,25081,02040,2600 2,43759,7070
17817	4,25083,45799,9670 2,43746,0260
17818	4,25085,89545,9930 2,43732,3467
17819	4,25088,33278,3397 2,43718,6689
17820	4,25090,76997,0086 2,43704,9926
17821	4,25093,20702,0012 2,43691,3178
17822	4,25095,64393,3190 2,43677,6446
17823	4,25098,08070,9636 2,43663,9729
17824	4,25100,51734,9365 2,43650,3027
17825	4,25102,95385,2392 2,43636,6341
17826	4,25105,39021,8733 2,43622,9669
17827	4,25107,82644,8402 2,43609,3014
17828	4,25110,26254,1416 2,43595,6373
17829	4,25112,69849,7789 2,43581,9748
17830	4,25115,13431,7537 2,43568,3138
17831	4,25117,57000,0675 2,43554,6544
17832	4,25120,00554,7219 2,43540,9965
17833	4,25122,44095,7184 2,43527,3401
17834	4,25124,87623,0585 2,43513,6852
17835	4,25127,31136,7437 2,43500,0320
17836	4,25129,74636,7757 2,43486,3802
17837	4,25132,18123,1559 2,43472,7299
17838	4,25134,61595,8858 2,43459,0812
17839	4,25137,05054,9670 2,43445,4341
17840	4,25139,48500,4011 2,43431,7883
17841	4,25141,91932,1894 2,43418,1443
17842	4,25144,35350,3337 2,43404,5016
17843	4,25146,78754,8353 2,43390,8606
17844	4,25149,22145,6959 2,43377,2210
17845	4,25151,65522,9169 2,43363,5829
17846	4,25154,08886,4998 2,43349,9465
17847	4,25156,52236,4463 2,43336,3115
17848	4,25158,95572,7578 2,43322,6781
17849	4,25161,38895,4359 2,43309,0462
17850	4,25163,82204,4821 2,43295,4158
17851	4,25166,25499,8979 2,43281,7869
17852	4,25168,68781,6848 2,43268,1596
17853	4,25171,12049,8444 2,43254,5339
17854	4,25173,55304,3783 2,43240,9096
17855	4,25175,98545,2879 2,43227,2869
17856	4,25178,41772,5748 2,43213,6656
17857	4,25180,84986,2404 2,43200,0459
17858	4,25183,28186,2863 2,43186,4278
17859	4,25185,71372,7141 2,43172,8111
17860	4,25188,14545,5252 2,43159,1960
17861	4,25190,57704,7212 2,43145,5824
17862	4,25193,00850,3036 2,43131,9703
17863	4,25195,43982,2739 2,43118,3598
17864	4,25197,87100,6337 2,43104,7508
17865	4,25200,30205,3845 2,43091,1433
17866	4,25202,73296,5278 2,43077,5373
17867	4,25205,16374,0651 2,43063,9329
17868	4,25207,59437,9980 2,43050,3299
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17872	4,25217,31557,7153 2,42995,9335
17873	4,25219,74553,6488 2,42982,3381
17874	4,25222,17535,9869 2,42968,7443
17875	4,25224,60504,7312 2,42955,1520
17876	4,25227,03459,8832 2,42941,5613
17877	4,25229,46401,4445 2,42927,9721
17878	4,25231,89329,4166 2,42914,3843
17879	4,25234,32243,8009 2,42900,7981
17880	4,25236,75144,5990 2,42887,2135
17881	4,25239,18031,8125 2,42873,6303
17882	4,25241,60905,4428 2,42860,0486
17883	4,25244,03765,4914 2,42846,4686
17884	4,25246,46611,9600 2,42832,8899
17885	4,25248,89444,8499 2,42819,3129
17886	4,25251,32264,1628 2,42805,7373
17887	4,25253,75069,9001 2,42792,1632
17888	4,25256,17862,0633 2,42778,5907
17889	4,25258,60640,6540 2,42765,0197
17890	4,25261,03405,6737 2,42751,4502
17891	4,25263,46157,1239 2,42737,8823
17892	4,25265,88895,0062 2,42724,3158
17893	4,25268,31619,3220 2,42710,7508
17894	4,25270,74330,0728 2,42697,1874
17895	4,25273,17027,2602 2,42683,6255
17896	4,25275,59710,8857 2,42670,0651
17897	4,25278,02380,9508 2,42656,5062
17898	4,25280,45037,4570 2,42642,9489
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17900	4,25285,30309,7989 2,42615,8386

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17901	4,25287,72925,6375	17934	4,25367,71654,2293	17967	4,25447,55678,0387
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17902	4,25290,15527,9233	17935	4,25370,13810,1199	17968	4,25449,97389,1738
	2,42588,7345		2,42142,3891		2,41697,6832
17903	4,25292,58116,6578	17936	4,25372,55952,5090	17969	4,25452,39086,8570
	2,42575,1848		2,42128,8892		2,41684,2327
17904	4,25295,00691,8426	17937	4,25374,98081,3982	17970	4,25454,80771,0897
	2,42561,6365		2,42115,3907		2,41670,7838
17905	4,25297,43253,4791	17938	4,25377,40196,7889	17971	4,25457,22441,8735
	2,42548,0897		2,42101,8937		2,41657,3364
17906	4,25299,85801,5688	17939	4,25379,82298,6826	17972	4,25459,64099,2099
	2,42534,5444		2,42088,3982		2,41643,8904
17907	4,25302,28336,1132	17940	4,25382,24387,0808	17973	4,25462,05743,1003
	2,42521,0007		2,42074,9043		2,41630,4460
17908	4,25304,70857,1139	17941	4,25384,66462,9851	17974	4,25464,47373,5463
	2,42507,4585		2,42061,4118		2,41617,0029
17909	4,25307,13364,5724	17942	4,25387,08523,3969	17975	4,25466,889,0,5492
	2,42493,9178		2,42047,9209		2,41603,5615
17910	4,25309,55858,4902	17943	4,25389,50571,3178	17976	4,25469,30594,1107
	2,42480,3786		2,42034,4314		2,41590,1216
17911	4,25311,98338,8688	17944	4,25391,92605,7492	17977	4,25471,72184,2323
	2,42466,8409		2,42020,9435		2,41576,6831
17912	4,25314,40805,7097	17945	4,25394,34626,6927	17978	4,25474,13760,9154
	2,42453,3047		2,42007,4570		2,41563,2461
17913	4,25316,83259,0144	17946	4,25396,76634,1497	17979	4,25476,55324,1615
	2,42439,7700		2,41993,9721		2,41549,8106
17914	4,25319,25698,7844	17947	4,25399,18628,1218	17980	4,25478,96873,9721
	2,42426,2368		2,41980,4887		2,41536,3767
17915	4,25321,68125,0212	17948	4,25401,60608,6105	17981	4,25481,38410,3488
	2,42412,7052		2,41967,0067		2,41522,9442
17916	4,25324,10537,7264	17949	5,25404,02575,6172	17982	4,25483,79933,2930
	2,42399,1751		2,41953,5263		2,41509,5131
17917	4,25326,52936,9015	17950	4,25406,44529,1435	17983	4,25486,21442,8061
	2,42385,6465		2,41940,0473		2,41496,0836
17918	4,25328,95322,5480	17951	4,25408,86469,1908	17984	4,25488,62938,8897
	2,42372,1194		2,41926,5699		2,41482,6556
17919	4,25331,37694,6674	17952	4,25411,28395,7607	17985	4,25491,04421,5453
	2,42358,5937		2,41913,0940		2,41469,2291
17920	4,25333,80053,2611	17953	4,25413,70308,8547	17986	4,25493,4,890,7744
	2,42345,0696		2,41899,6196		2,41455,8041
17921	4,25336,22398,3307	17954	4,25416,12208,4743	17987	4,25495,87346,5785
	2,42331,5471		2,41886,1467		2,41442,3806
17922	4,25338,64729,8778	17955	4,25418,54094,6210	17988	4,25498,28788,9591
	2,42318,0260		2,41872,6752		2,41428,9585
17923	4,25341,07047,9038	17956	4,25420,95967,2962	17989	4,25500,70217,9176
	2,42304,5064		2,41859,2053		2,41415,5380
17924	4,25343,49352,4102	17957	4,25423,37826,5015	17990	4,25503,11633,4556
	2,42290,9884		2,41845,7369		2,41402,1189
17925	4,25345,91643,3986	17958	4,25425,79672,2384	17991	4,25505,53035,5745
	2,42277,4718		2,41832,2699		2,41388,7013
17926	4,25348,33920,8704	17959	4,25428,21504,5083	17992	4,25507,94424,2758
	2,42263,9567		2,41818,8045		2,41375,2853
17927	4,25350,76184,8271	17960	4,25430,63323,3128	17993	4,25510,35799,5611
	2,42250,4422		2,41805,3406		2,41361,8707
17928	4,25353,18435,2703	17961	4,25433,05128,6534	17994	4,25512,77161,4318
	2,42236,9311		2,41791,8782		2,41348,4576
17929	4,25355,60672,2014	17962	4,25435,46920,5316	17995	4,25515,18509,8894
	2,42223,4206		2,41778,4173		2,41335,0460
17930	4,25358,02895,6220	17963	4,25437,88698,9489	17996	4,25517,59844,9354
	2,42209,9116		2,41764,9578		2,41341,6359
17931	4,25360,45105,5336	17964	4,25440,30463,9067	17997	4,25520,01166,5713
	2,42196,4041		2,41751,4999		2,41308,2272
17932	4,25362,87301,9377	17965	4,25442,72215,4066	17998	4,25522,42474,7985
	2,42182,8981		2,41738,0435		2,41294,8201
17933	4,25365,29484,8358	17966	4,25445,13953,4501	17999	4,25524,83769,6186
	2,42169,3935		2,41724,5886		2,41281,4145
17934	4,25367,71654,2293	17967	4,25447,55678,0387	18000	4,25527,25051,0331
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18002	4,25532, 07573, 6511
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18003	4,25534, 48814, 8576
	2, 41227, 8068
18004	4,25536, 90042, 6644
	2, 41214, 4086
18005	4,25539, 31257, 0730
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18006	4,25541, 72458, 0849
	2, 41187, 6167
18007	4,25544, 13645, 7016
	2, 41174, 2230
18008	4,25546, 54819, 9246
	2, 41160, 8307
18009	4,25548, 95980, 7553
	2, 41147, 4399
18010	4,25551, 37128, 1952
	2, 41134, 0507
18011	4,25553, 78262, 2459
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18092	4,25748, 65790, 7387
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18093	4,25751, 05831, 9061
	2, 40027, 9007
18094	4,25753, 45859, 8068
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	2,39855,5668
18107	4,25784,65015,9114
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	2,39815,8326
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18111	4,25794,24305,7313
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	2,39723,1706
18117	4,25808,62843,2797
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18124	4,25825,40535,0715
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	2,39432,4128
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	2,39419,2133
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	2,39392,8187
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	2,39379,6235
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	2,39234,5730
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18163	4,25918,75829,4281
	2,39102,8612
18164	4,25921,14932,2893
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18165	4,25923,54021,9874
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18173	4,25942,66265,8705
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18183	4,25966,55387,2966
	2,38839,8724
18184	4,25968,94227,1690
	2,38826,7382
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18204	4,26016, 68268,3436
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18205	4,26019, 06832,6997
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18206	4,26021, 45383,9518
	2, 38538,1495
18207	4,26023, 83922,1013
	2, 38525,0485
18208	4,26026, 22447,1498
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18210	4,26030, 99457,9492
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18211	4,26033, 37943,7030
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18212	4,26035, 76416,3615
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	2, 38446,4721
18214	4,26040, 53322,3982
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18215	4,26042, 91755,7793
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18216	4,26045, 30176,0708
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18217	4,26047, 68583,2742
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18218	4,26050, 06977,3909
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18219	4,26052, 45358,4223
	2, 38367,9475
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	2, 38354,8651
18221	4,26057, 22081,2349
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	2, 38289,4746
18226	4,26069, 13659,3747
	2, 38276,4008
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18257	4,26142, 94155,5945
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18258	4,26145, 32027,4181
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18265	4,26161, 96765,4793
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18270	4,26173, 85473,5253
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18271	4,26176, 23176,0961
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18281	4,26199, 99486,5183
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18286	4,26211, 87154,3187
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18290	4,26221, 37054,7641
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18291	4,26223, 74497,4158
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18293	4,26228, 49343,7774
	2, 37403,7128
18294	4,26230, 86747,4902
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18295	4,26233, 24138,2262
	2, 37377,7607
18296	4,26235, 61515,9869
	2, 37364,7867
18297	4,26237, 98880,7736
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	2,37261,0462
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	2,37248,0850
18306	4,26259,34580,2605
	2,37235,1253
18307	4,26261,71815,3858
	2,37222,1669
18308	4,26264,09037,5527
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18309	4,26266,46246,7626
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18310	4,26268,83443,0170
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18311	4,26271,20626,3173
	2,37170,3476
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18313	4,26275,94954,0612
	2,37144,4464
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	2,37131,4980
18315	4,26280,69230,0056
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18316	4,26283,06348,5566
	2,37105,6053
18317	4,26285,43454,1619
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18318	4,26287,80546,8230
	2,37079,7183
18319	4,26290,17626,5413
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18320	4,26292,54693,3183
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18321	4,26294,91747,1553
	2,37040,8984
18322	4,26297,28788,0537
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18323	4,26299,65816,0150
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18326	4,26306,76822,2900
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18327	4,26309,13798,5168
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18328	4,26311,50761,8135
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18329	4,26313,87712,1815
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18410	4,26505, 37885,0401
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18412	4,26510, 09662,2193
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18413	4,26512, 45531,5917
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18416	4,26519, 53062,8572
	2, 35818,1424
18417	4,26521, 88880,9996
	2, 35805,3384
18418	4,26524, 24686,3380
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18419	4,26526, 60478,8738
	2, 35779,7345
18420	4,26528, 96258,6083
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18423	4,26536, 03521,0183
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18424	4,26538, 39249,5617
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18426	4,26543, 10668,2671
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18505	4,26728,90894,3113
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18506	4,26731,25578,3144
	2,34671,3219
18507	4,26733,60249,6363
	2,34658,6422
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	2,34645,9638
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	2,34620,6110
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18512	4,24745,33416,0766
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18516	4,26754,71721,1077
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18517	4,26757,06265,6933
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18518	4,26759,40797,6129
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18519	4,26761,75316,8677
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18520	4,26764,09823,4592
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18529	4,26785,19813,1560
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18596	4,26941,95375,1105
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18597	4,26944,28910,7124
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18605	4,26962, 96743,5756
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18613	4,26981, 63773,4981
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18614	4,26983, 97095,7683
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18615	4,26986, 30405,5441
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18617	4,26990, 96987,4975
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18623	4,27004, 96432,6717
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18624	4,27007, 29629,6980
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18625	4,27009, 62814,2033
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18626	4,27011, 95986, 1890
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18627	4,27014, 29145,6564
	2, 33146,9505
18628	4,27016, 62292,6069
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18629	4,27018, 95427,0418
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18637	4,27037, 60052, 1201
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18644	4,27053, 90942,6055
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18649	4,27065, 55489,5299
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18650	4,27067, 88361,4471
	2, 32859,4311
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18653	4,27074, 86902,2875
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18655	4,27079, 52533,7685
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18656	4,27081, 85330,7892
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18662	4,27095, 81850, 9209
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18663	4,27098, 14560,6232
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	2, 32684,7663
18665	4,27102, 79942,6232
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18667	4,27107, 45274,7589
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18669	4,27112, 10557,0413
	2, 32622,4495
18670	4,27114, 43179,4908
	2, 32609,9901
18671	4,27116, 75789,4809
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18672	4,27119, 08387,0130
	2, 32585,0754
18673	4,27121, 40972,0884
	2, 32572,6200
18674	4,27123, 73544,7084
	2, 32560,1660
18675	4,27126, 06104,8744
	2, 32547,7133
18676	4,27128, 38652,5877
	2, 32535,2619
18677	4,27130, 71187, 8496
	2, 32522,8119
18678	4,27133, 03710, 6615
	2, 32510,3633
18679	4,20135, 36221,0249
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18680	4,27137, 68718,9408
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	2, 32460,5818
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	2, 32448,1398
18684	4,27146, 98586,1575
	2, 32435,6991
18685	4,27149, 31021,8566
	2, 32423,2598
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	2, 32410,8217
18687	4,27153, 95855, 9381
	2, 32398,3850
18688	4,27156, 28254,3231
	2, 32385,9496
18689	4,27158, 60640,2727
	2, 32373,5156
18690	4,27160, 93013, 7883
	2, 32361,0829
18691	4,27163, 25374,8712
	2, 32348,6515
18692	4,27165, 57723,5227
	2, 32336,2215
18693	4,27167, 90059, 7442
	2, 32323,7928
18694	4,27170, 22383,5370
	2, 32311,3654
18695	4,27172, 54694,9024
	2, 32298,9393
18696	4,27174, 86993, 8417
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	2,32187,1646
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	2,32174,7518
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	2,32162,3404
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	2,32149,9302
18708	4,27202,73612,3646
	2,32137,5215
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18711	4,27209,69987,7079
	2,32100,3030
18712	4,27212,02088,0109
	2,32087,8995
18713	4,27214,34175,9104
	2,32075,4974
18714	4,27216,66251,4078
	2,32063,0966
18715	4,27218,98314,5044
	2,32050,6970
18716	4,27221,30365,2014
	2,32038,2989
18717	4,27223,62403,5003
	2,32025,9020
18718	4,27225,94429,4023
	2,32013,5064
18719	4,27228,26442,9087
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18720	4,27230,58444,0209
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18721	4,27232,90432,7402
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18722	4,27235,22409,0080
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18723	4,27237,54373,0055
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18725	4,27242,18263,7151
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18728	4,27249,14006,8858
	2,31889,6238
18729	4,27251,45896,5096
	2,31877,2428
18730	4,27253,77773,7524
	2,31864,8632
18731	4,27256,09638,6156
	2,31852,4849
18732	4,27258,41491,1005
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	2,31778,2425
18738	4,27272,32346,1384
	2,31765,8735
18739	4,27274,64112,0119
	2,31753,5057
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18741	4,27279,27606,6548
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18742	4,27281,59335,4279
	2,31716,4103
18743	4,27283,91051,8382
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18744	4,27286,22755,8870
	2,31691,6887
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	2,31679,3267
18746	4,27290,86126,9024
	2,31666,9682
18747	4,27293,17793,8706
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	2,31642,2552
18749	4,27297,81090,7368
	2,31629,9006
18750	4,27300,12720,6374
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	2,31592,8447
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	2,31531,1113
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18759	4,27320,96834,0033
	2,31506,4272
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	2,31457,0746
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	2,31346,1084
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	2,31333,7854
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	2,31321,4637
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	2,31309,1433
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	2,31296,8242
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	2,31284,5065
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	2,31247,5610
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	2,31149,0976
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	2,31063,0108
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18797	4,27408,85414,2270
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	2,30927,8611
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	2,30915,5826
18808	4,27434,26161,1688
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18812	4,27443,49700,7406
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18813	4,27445,80554,9503
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18814	4,27448,11396,8893
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18815	4,27450,42226,5590
	2,30817,4016
18816	4,27452,73043,9606
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18817	4,27455,03849,0955
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18818	4,27457,34641,9649
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18821	4,27464,26946,9934
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18822	4,27466,57690,8140
	2,30731,5617
18823	4,27468,88422,3757
	2,30719,3041
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	2,30707,0477
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18827	4,27478,11226,0592
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18828	4,27480,41896,3457
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18832	4,27489,64454,9937
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18833	4,27491,95064,0376
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18837	4,27501,17377,7802
	2,30547,8338
18838	4,27503,47925,6140
	2,30535,5957
18839	4,27505,78461,2097
	2,30523,3589
18840	4,27508,08984,5686
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18847	4,27524,22305,5591
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18849	4,27528,83144,3561
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18856	4,27544,95695,1627
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18858	4,27549,56314,0122
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18859	4,27551,86605,1181
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	2,30242,2701
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	2,30230,0644
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	2,30205,6569
18866	4,27567,98301,0270
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18867	4,27570,28494,4821
	2,30181,2545
18868	4,27572,58675,7366
	2,30169,0553
18869	4,27574,88844,7919
	2,30156,8574
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18877	4,27593,29758,2170
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18882	4,27604,79932,9686
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18883	4,27607,09931,3703
	2,29986,2218
18884	4,27609,39917,5921
	2,29974,0433
18885	4,27611,69891,6354
	2,29961,8660
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18887	4,27616,29803,1914
	2,29937,5153
18888	4,27618,59740,7067
	2,29925,3419
18889	4,27620,89666,0486
	2,29913,1697
18890	4,27623,19579,2183
	2,29900,9989
18891	4,27625,49480,2172
	2,29888,8294
18892	4,27627,79369,0466
	2,29876,6611
18893	4,27630,09245,7077
	2,29864,4941
18894	4,27632,39110,2018
	2,29852,3285
18895	4,27634,68962,5303
	2,29840,1641
18896	4,27636,98802,6944
	2,29828,0010
18897	4,27639,28630,6954
	2,29815,8392
18898	4,27641,58446,5346
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18905	4,27657,66816,9856
	2,29718,5909
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	2,29706,4406
18907	4,27662,26242,0171
	2,29694,2917
18908	4,27664,55936,3088
	2,29682,1440
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18910	4,27669,15288,4505
	2,29657,8525
18911	4,27671,44946,3030
	2,29645,7087
18912	4,27673,74592,0117
	2,29633,5662
18913	4,27676,04225,5779
	2,29621,4249
18914	4,27678,33847,0028
	2,29609,2849
18915	4,27680,63456,2877
	2,29597,1463
18916	4,27682,93053,4340
	2,29585,0089
18917	4,27685,22638,4429
	2,29572,8727
18918	4,27687,52211,3156
	2,29560,7379
18919	4,27689,81772,0535
	2,29548,6043
18920	4,27692,11320,6578
	2,29536,4721
18921	4,27694,40857,1299
	2,29524,3411
18922	4,27696,70381,4710
	2,29512,2114
18923	4,27698,99893,6824
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18924	4,27701,29393,7654
	2,29487,9558
18925	4,27703,58881,7212
	2,29475,8300
18926	4,27705,88357,5512
	2,29463,7054
18927	4,27708,17821,2566
	2,29451,5821
18928	4,27710,47272,8387
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18929	4,27712,76712,2988
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18930	4,27715,06139,6381
	2,29415,2199
18931	4,27717,35554,8580
	2,29403,1017
18932	4,27719,64957,9597
	2,29390,9848
18933	4,27721,94348,9445
	2,29378,8692
18934	4,27724,23727,8137
	2,29366,7549
18935	4,27726,53094,5686
	2,29354,6418
18936	4,27728,82449,2104
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18937	4,27731,11791,7404
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18938	4,27733,41122,1600
	2,29318,3103
18939	4,27735,70440,4703
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18940	4,27737,99746,6727
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18941	4,27740,29040,7684
	2,29281,9903
18942	4,27742,58322,7587
	2,29269,8862
18943	4,27744,87592,6449
	2,29257,7834
18944	4,27747,16850,4283
	2,29245,6819
18945	4,27749,46096,1102
	2,29233,5816
18946	4,27751,75329,6918
	2,29221,4826
18947	4,27754,04551,1744
	2,29209,3849
18948	4,27756,33760,5593
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18951	4,27763,21316,1403
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18952	4,27765,50477,1471
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	2,29136,8254
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18955	4,27772,37887,6245
	2,29112,6491
18956	4,27774,67000,2736
	2,29100,6629
18957	4,27776,96100,8365
	2,29088,4779
18958	4,27779,25189,3144
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18959	4,27781,54265,7087
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18960	4,27783,83330,0205
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18961	4,27786,12382,2512
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18962	4,27788,41422,4020
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18963	4,27790,70450,4743
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18965	4,27795,28470,3881
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18966	4,27797,57462,2323
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	2,28931,4894
18971	4,27809,02240,3761
	2,28919,4223
18972	4,27811,31159,7984
	2,28907,3564
18973	4,27813,60067,1548
	2,28895,2919
18974	4,27815,88962,4467
	2,28883,2285
18975	4,27818,17845,6752
	2,28871,1665
18976	4,27820,46716,8417
	2,28859,1058
18977	4,27822,75575,9475
	2,28847,0462
18978	4,27825,04422,9937
	2,28834,9880
18979	4,27827,33257,9817
	2,28822,9310
18980	4,27829,62080,9127
	2,28810,8754
18981	4,27831,90891,7881
	2,28798,8209
18982	4,27834,19690,6090
	2,28786,7678
18983	4,27836,48477,3768
	2,28774,7159
18984	4,27838,77252,0927
	2,28762,6654
18985	4,27841,06014,7581
	2,28750,6159
18986	4,27843,34765,3740
	2,28738,5679
18987	4,27845,63503,9419
	2,28726,5211
18988	4,27847,92230,4630
	2,28714,4756
18989	4,27850,20944,9386
	2,28702,4315
18990	4,27852,49647,3701
	2,28690,3884
18991	4,27854,78337,7585
	2,28678,3466
18992	4,27857,07016,1051
	2,28666,3062
18993	4,27859,35682,4113
	2,28654,2670
18994	4,27861,64336,6783
	2,28642,2291
18995	4,27863,92978,9074
	2,28630,1924
18996	4,27866,21609,0998
	2,28618,1571
18997	4,27868,50227,2569
	2,28606,1229
18998	4,27870,78833,3798
	2,28594,0901
18999	4,27873,07427,4699
	2,28582,0584
19000	4,27875,36009,5283
	2,28570,0281

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19001	4,27877,64579,5564
	2,28557,9991
19002	4,27879,93137,5555
	2,28545,9713
19003	4,27882,21683,5268
	2,28533,9448
19004	4,27884,50217,4716
	2,28521,9196
19005	4,27886,78739,3912
	2,28509,8956
19006	4,27889,07249,2868
	2,28497,8728
19007	4,27891,35747,1596
	2,28485,8514
19008	4,27893,64233,0110
	2,28473,8312
19009	4,27895,92706,8422
	2,28461,8122
19010	4,27898,21168,6544
	2,28449,7946
19011	4,27900,49618,4490
	2,28437,7782
19012	4,27902,78056,2272
	2,28425,7630
19013	4,27905,06481,9902
	2,28413,7492
19014	4,27907,34895,7394
	2,28401,7366
19015	4,27909,63297,4760
	2,28389,7252
19016	4,27911,91687,2012
	2,28377,7151
19017	4,27914,20064,9163
	2,28365,7063
19018	4,27916,48430,6226
	2,28353,6988
19019	4,27918,76784,3214
	2,28341,6925
19020	4,27921,05126,0139
	2,28329,6874
19021	4,20923,33455,7013
	2,28317,6837
19022	4,27925,61773,3850
	2,28305,6812
19023	4,27927,90079,0662
	2,28293,6799
19024	4,27930,18372,7461
	2,28281,6800
19025	4,27932,46654,4261
	2,28269,6812
19026	4,27934,74924,1073
	2,28257,6838
19027	4,27937,03181,7911
	2,28245,6876
19028	4,27939,31427,4787
	2,28233,6926
19029	4,27941,59661,1713
	2,28221,6990
19030	4,27943,87882,8703
	2,28209,7065
19031	4,27946,16092,5768
	2,28197,7154
19032	4,27948,44290,2922
	2,28185,7255
19033	4,27950,72476,0177
	2,28173,7368
19034	4,27953,00649,7545
	2,28161,7494

Num. absolut.	Logarithmi.
19034	4,27953,00649,7545
	2,28161,7494
19035	4,27955,28811,5039
	2,28149,7633
19036	4,27957,56961,2672
	2,28137,7785
19037	4,27959,85099,0457
	2,28125,7948
19038	4,27962,13224,8405
	2,28113,8125
19039	4,27964,41338,6530
	2,28101,8315
19040	4,27966,69440,4845
	2,28089,8516
19041	4,27968,97530,3361
	2,28077,8731
19042	4,27971,25608,2092
	2,28065,8958
19043	4,27973,53674,1050
	2,28053,9197
19044	4,27975,81728,0247
	2,28041,9449
19045	4,27978,09769,9696
	2,28029,9714
19046	4,27980,37799,9410
	2,28017,9991
19047	4,27982,65817,9401
	2,28006,0281
19048	4,27984,93823,9682
	2,27994,0584
19049	4,27987,21818,0266
	2,27982,0898
19050	4,27989,49800,1164
	2,27970,1226
19051	4,27991,77770,2390
	2,27958,1566
19052	4,27994,05728,3956
	2,27946,1918
19053	4,27996,33674,5874
	2,27934,2284
19054	4,27998,61608,8158
	2,27922,2661
19055	4,28000,89531,0819
	2,27910,3052
19056	4,28003,17441,3871
	2,27898,3454
19057	4,28005,45339,7325
	2,27886,3870
19058	4,28007,73226,1195
	2,27874,4298
19059	4,28010,01100,5493
	2,27862,4738
19060	4,28012,28963,0231
	2,27850,5191
19061	4,28014,56813,5422
	2,27838,5657
19062	4,28016,84652,1079
	2,27826,6135
19063	4,28019,12478,7214
	2,27814,6626
19064	4,28021,40293,3840
	2,27802,7129
19065	4,28023,68096,0969
	2,27790,7645
19066	4,28025,95886,8614
	2,27778,8173
19067	4,28028,23665,6787
	2,27766,8714

Num. absolut.	Logarithmi.
19067	4,28028,23665,6787
	2,27766,8714
19068	4,28030,51432,5501
	2,27754,9267
19069	4,28032,79187,4768
	2,27742,9833
19070	4,28035,06930,4601
	2,27731,0411
19071	4,28037,34661,5012
	2,27719,1002
19072	4,28039,62380,6014
	2,27707,1606
19073	4,28041,90087,7620
	2,27695,2222
19074	4,28044,17782,9842
	2,27683,2850
19075	4,28046,45466,2692
	2,27671,3491
19076	4,28048,73137,6183
	2,27659,4145
19077	4,28051,00797,0328
	2,27647,4811
19078	4,28053,28444,5139
	2,27635,5489
19079	4,28055,56080,0628
	2,27623,6180
19080	4,28057,83703,6808
	2,27611,6884
19081	4,28060,11315,3692
	2,27599,7600
19082	4,28062,38915,1292
	2,27587,8328
15083	4,28064,66502,9620
	2,27575,9069
19084	4,28066,94078,8689
	2,27563,9823
19085	4,28069,21642,8512
	2,27552,0589
19086	4,28071,49194,9101
	2,27540,1368
19087	4,28073,76735,0469
	2,27528,2158
19088	4,28076,04263,2627
	2,27516,2962
19089	4,28078,31779,5589
	2,27504,3778
19090	4,28080,59283,9367
	2,27492,4607
19091	4,28082,86776,3974
	2,27480,5447
19092	4,28085,14256,9421
	2,27468,6301
19093	4,28087,41725,5722
	2,27456,7167
19094	4,28089,69182,2889
	2,27444,8045
19095	4,28091,96627,0934
	2,27432,8936
19096	4,28094,24059,9870
	2,27420,9840
19097	4,28096,51480,9710
	2,27409,0755
19068	4,28098,78890,0465
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19099	4,28101,06287,2149
	2,27385,2624
19100	4,28103,33672,4773
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	2,27361,4543
19102	4,28107,88407,2894
	2,27349,5522
19103	4,28110,15756,8416
	2,27337,6512
19104	4,28112,43094,4928
	2,27325,7515
19105	4,28114,70420,2443
	2,27313,8531
19106	4,28116,97734,0974
	2,27301,9559
19107	4,28119,25036,0533
	2,27290,0599
19108	4,28121,52326,1132
	2,27278,1652
19109	4,28123,79604,2784
	2,27266,2717
19110	4,28126,06870,5501
	2,27254,3795
19111	4,28128,34124,9296
	2,27242,4886
19112	4,28130,61367,4182
	2,27230,5988
19113	4,28132,88598,0170
	2,27218,7104
19114	4,28135,15816,7274
	2,27206,8231
19115	4,28137,43023,5505
	2,27194,9371
19116	4,28139,70218,4876
	2,27183,0524
19117	4,28141,97401,5400
	2,27171,1689
19118	4,28144,24572,7089
	2,27159,2866
19119	4,28146,51731,9955
	2,27147,4055
19120	4,28148,78879,4010
	2,27135,5257
19121	4,28151,06014,9267
	2,27123,6472
19122	4,28153,33138,5739
	2,27111,7699
19123	4,28155,60250,3438
	2,27099,8939
19124	4,28157,87350,2377
	2,27088,0190
19125	4,28160,14438,2567
	2,27076,1454
19126	4,28162,41514,4021
	2,27064,2731
19127	4,28164,68578,6752
	2,27052,4020
19128	4,28166,95631,0772
	2,27040,5322
19129	4,28169,22671,6094
	2,27028,6636
19130	4,28171,49700,2730
	2,27016,7962
19131	4,28173,76717,0692
	2,27004,9301
19132	4,28176,03721,9993
	2,26993,0651
19133	4,28178,30715,0644
	2,26981,2015
19134	4,28180,57696,2659
	2,26969,3392
19135	4,28182,84665,6051
	2,26957,4780
19136	4,28185,11623,0831
	2,26945,6181
19137	4,28187,38568,7012
	2,26933,7594
19138	4,28189,65502,4606
	2,26921,9019
19139	4,28191,92424,3625
	2,26910,0457
19140	4,28194,19334,4082
	2,26898,1908
19141	4,28196,46232,5990
	2,26886,3370
19142	4,28198,73118,9360
	2,26874,4845
19143	4,28200,99993,4205
	2,26862,6333
19144	4,28203,26856,0538
	2,26850,7833
19145	4,28205,53706,8371
	2,26838,9345
19146	4,28207,80545,7716
	2,26827,0869
19147	4,28210,07372,8585
	2,26815,2406
19148	4,28212,34188,0991
	2,26803,3956
19149	4,28214,60991,4947
	2,26791,5517
19150	4,28216,87783,0464
	2,26779,7092
19151	4,28219,14562,7556
	2,26767,8678
19152	4,28221,41330,6234
	2,26756,0276
19153	4,28223,68086,6510
	2,26744,1888
19154	4,28225,94830,8398
	2,26732,3512
19155	4,28228,21563,1910
	2,26720,5148
19156	4,28230,48283,7058
	2,26708,6796
19157	4,28232,74992,3854
	2,26696,8456
19158	4,28235,01689,2310
	2,26685,0129
19159	4,28237,28374,2439
	2,26673,1814
19160	4,28239,55047,4253
	2,26661,3512
19161	4,28241,81708,7765
	2,26649,5222
19162	4,28244,08358,2987
	2,26637,6944
19163	4,28246,34995,9931
	2,26625,8679
19164	4,28248,61621,8610
	2,26614,0427
19165	4,28250,88235,9037
	2,26602,2186
19166	4,28253,14838,1223
	2,26590,3957
19167	4,28255,41428,5180
	2,26578,5741
19168	4,28257,68007,0921
	2,26566,7538
19169	4,28259,94573,8459
	2,26554,9347
19170	4,28262,21128,7806
	2,26543,1168
19171	4,28264,47671,8974
	2,26531,3001
19172	4,28266,74203,1975
	2,26519,4847
19173	4,28269,00722,6822
	2,26507,6705
19174	4,28271,27230,3527
	2,26495,8575
19175	4,28273,53726,2102
	2,26484,0458
19176	4,28275,80210,2560
	2,26472,2353
19177	4,28278,06682,4913
	2,26460,4260
19178	4,28280,33142,9173
	2,26448,6179
19179	4,28282,59591,5352
	2,26436,8112
19180	4,28284,86028,3464
	2,26425,0056
19181	4,28287,12453,3520
	2,26413,2013
19182	4,28289,38866,5533
	2,26401,3981
19183	4,28291,65267,9514
	2,26389,5963
19184	4,28293,91657,5477
	2,26377,7956
19185	4,28296,18035,3433
	2,26365,9962
19186	4,28298,44401,3395
	2,26354,1980
19187	4,28300,70755,5375
	2,26342,4011
19188	4,28302,97097,9386
	2,26330,6053
19189	4,28305,23428,5439
	2,26318,8108
19190	4,28307,49747,3547
	2,26307,0176
19191	4,28309,76054,3723
	2,26295,2255
19192	4,28312,02349,5978
	2,26283,4347
19193	4,28314,28633,0325
	2,26271,6451
19194	4,28316,54904,6776
	2,26259,8567
19195	4,28318,81164,5343
	2,26248,0696
19196	4,28321,07412,6039
	2,26236,2837
19197	4,28323,33648,8876
	2,26224,4990
19198	4,28325,59873,3866
	2,26212,7156
19199	4,28327,86086,1022
	2,26200,9333
19200	4,28330,12287,0355
	2,26189,1524

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19201	4,28332,38476,1879
	2,26177,3726
19202	4,28334,64653,5605
	2,26165,5940
19203	4,28336,90819,1545
	2,26153,8167
19204	4,28339,16972,9712
	2,26142,0407
19205	4,28341,43115,0119
	2,26130,2658
19206	4,28343,69245,2777
	2,26118,4922
19207	4,28345,95363,7699
	2,26106,7198
19208	4,28348,21470,4897
	2,26094,9486
19209	4,28350,47565,4383
	2,26083,1786
19210	4,28352,73648,6169
	2,26071,4099
19211	4,28354,99720,0268
	2,26059,6424
19212	4,28357,25779,6692
	2,26047,8761
19213	4,28359,51827,5453
	2,26036,1111
19214	4,28361,77863,6564
	2,26024,3473
19215	4,28364,03888,0037
	2,26012,5846
19216	4,28366,29900,5883
	2,26000,8233
19217	4,28368,55901,4116
	2,25989,0631
19218	4,28370,81890,4747
	2,25977,3042
19219	4,28373,07867,7789
	2,25965,5464
19220	4,28375,33833,3253
	2,25953,7900
19221	4,28377,59787,1153
	2,25942,0347
19222	4,28379,85729,1500
	2,25930,2807
19223	4,28382,11659,4307
	2,25918,5278
19224	4,28384,37577,9585
	2,25906,7762
19225	4,28386,63484,7347
	2,25895,0259
19226	4,28388,89379,7606
	2,25883,2767
19227	4,28391,15263,0373
	2,25871,5288
19228	4,28393,41134,5661
	2,25859,7821
19229	4,28395,66994,3482
	2,25848,0366
19230	4,28397,92842,3848
	2,25836,2923
19231	4,28400,18678,6771
	2,25824,5493
19232	4,28402,44503,2264
	2,25812,8075
19233	4,28404,70316,0339
	2,25801,0669
19234	4,28406,96117,1008
	2,25789,3275

Num. absolut.	Logarithmi.
19234	4,28406,96117,1008
	2,25789,3275
19235	4,28409,21906,4283
	2,25777,5894
19236	4,28411,47684,0177
	2,25765,8524
19237	4,28413,73449,8701
	2,25754,1167
19238	4,28415,99203,9868
	2,25742,3822
19239	4,28418,24946,3690
	2,25730,6489
19240	4,28420,50677,0179
	2,25718,9169
19241	4,28422,76395,9348
	2,25707,1860
19242	4,28425,02103,1208
	2,25695,4564
19243	4,28427,27798,5772
	2,25683,7280
19244	4,28429,53482,3052
	2,25672,0009
19245	4,28431,79154,3061
	2,25660,2749
19246	4,28434,04814,5810
	2,25648,5501
19247	4,28436,30463,1311
	2,25636,8266
19248	4,28438,56099,9577
	2,25625,1043
19249	4,28440,81725,0620
	2,25613,3832
19250	4,28443,07338,4452
	2,25601,6634
19251	4,28445,32940,1086
	2,25589,9447
19252	4,28447,58530,0533
	2,25578,2272
19253	4,28449,84108,2805
	2,25566,5110
19254	4,28452,09674,7915
	2,25554,7960
19255	4,28454,35229,5875
	2,25543,0822
19256	4,28456,60772,6697
	2,25531,3696
19257	4,28458,86304,0393
	2,25519,6583
19258	4,28461,11823,6976
	2,25507,9482
19259	4,28463,37331,6458
	2,25496,2393
19260	4,28465,62827,8851
	2,25484,5316
19261	4,28467,88312,4167
	2,25472,8250
19262	4,28470,13785,2417
	2,25461,1198
19263	4,28472,39246,3615
	2,25449,4157
19264	4,28474,64695,7772
	2,25437,7129
19265	4,28476,90133,4901
	2,25426,0113
19266	4,28479,15559,5014
	2,25414,3109
19267	4,28481,40973,8123
	2,25402,6116

Num. absolut.	Logarithmi.
19267	4,28481,40973,8123
	2,25402,6116
19268	4,28483,66376,4239
	2,25390,9137
19269	4,28485,91767,3376
	2,25379,2169
19270	4,28488,17146,5545
	2,25367,5213
19271	4,28490,42514,0758
	2,25355,8270
19272	4,28492,67869,9028
	2,25344,1338
19273	4,28494,93214,0366
	2,25332,4420
19274	4,28497,18546,4786
	2,25320,7513
19275	4,28499,43867,2299
	2,25309,0618
19276	4,28501,69176,2917
	2,25297,3735
19277	4,28503,94473,6652
	2,25285,6864
19278	4,28506,19759,3516
	2,25274,0006
19279	4,28508,45033,3522
	2,25262,3159
19280	4,28510,70295,6681
	2,25250,6325
19281	4,28512,95546,3006
	2,25238,9503
19282	4,28515,20785,2509
	2,25227,2693
19283	4,28517,46012,5202
	2,25205,5895
19284	4,28519,71218,1097
	2,25203,9109
19285	4,28521,96432,0206
	2,25192,2335
19286	4,28524,21624,2541
	2,25180,5574
19287	4,28526,46804,8115
	2,25168,8824
19288	4,28528,71973,6939
	2,25157,2087
19289	4,28530,97130,9026
	2,25145,5362
19290	4,28533,22276,4388
	2,25133,8649
19291	4,28535,47410,3037
	2,25122,1947
19292	4,28537,72532,4984
	2,25110,5258
19293	4,28539,97643,0242
	2,25098,8582
19294	4,28542,22741,8824
	2,25087,1917
19295	4,28544,47829,0741
	2,25075,5264
19296	4,28546,72904,6005
	2,25063,8624
19297	4,28548,97968,4629
	2,25052,1995
19298	4,28551,23020,6624
	2,25040,5379
19299	4,28553,48061,2003
	2,25028,8774
19300	4,28555,73090,0777
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	2,24982,2478
19304	4,28564,73089,0072
	2,24970,5934
19305	4,28566,98059,6006
	2,24958,9402
19306	4,28569,23018,5408
	2,24947,2882
19307	4,28571,47965,8290
	2,24935,6375
19308	4,28573,72901,4665
	2,24923,9879
19309	4,28575,97825,4544
	2,24912,3395
19310	4,28578,22737,7939
	2,24900,6924
19311	4,28580,47638,4863
	2,24889,0464
19312	4,28582,72527,5327
	2,24877,4017
19313	4,28584,97404,9344
	2,24865,7581
19314	4,28587,22270,6925
	2,24854,1158
19315	4,28589,47124,8083
	2,24842,4747
19316	4,28591,71967,2830
	2,24830,8348
19317	4,28593,96798,1178
	2,24819,1960
19318	4,28596,21617,3138
	2,24807,5586
19319	4,28598,46424,8724
	2,24795,9223
19320	4,28600,71220,7947
	2,24784,2872
19321	4,28602,96005,0819
	2,24772,6533
19322	4,28605,20777,7352
	2,24761,0205
19323	4,28607,45538,7557
	2,24749,3891
19324	4,28609,70288,1448
	2,24737,7588
19325	4,28611,95025,9036
	2,24726,1297
19326	4,28614,19752,0333
	2,24714,5019
19327	4,28616,44466,5352
	2,24702,8752
19328	4,28618,69169,4104
	2,24691,2497
19329	4,28620,93860,6601
	2,24679,6254
19330	4,28623,18540,2855
	2,24668,0024
19331	4,28625,43208,2879
	2,24656,3805
19332	4,28627,67864,6684
	2,24644,7599
19333	4,28629,92509,4283
	2,24633,1404
19334	4,28632,17142,5687
	2,24621,5221
19335	4,28634,41764,0908
	2,24609,9051
19336	4,28636,66373,9959
	2,24598,2892
19337	4,28638,90972,2851
	2,24586,6746
19338	4,28641,15558,9597
	2,24575,0612
19339	4,28643,40134,0209
	2,24563,4489
19340	4,28645,64697,4698
	2,24551,8378
19341	4,28647,89249,3076
	2,24540,2280
19342	4,28650,13789,5356
	2,24528,6194
19343	4,28652,38318,1550
	2,24517,0119
19344	4,28654,62835,1669
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19345	4,28656,87340,5726
	2,24493,8006
19346	4,28659,11834,3732
	2,24482,1968
19347	4,28661,36316,5700
	2,24470,5941
19348	3,28663,60787,1641
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	2,24412,5989
19353	4,28674,82966,1371
	2,24401,0034
19354	4,28677,07367,1405
	2,24389,4092
19355	4,28679,31756,5497
	2,24377,8161
19356	4,28681,56134,3658
	2,24366,2243
19357	4,28683,80500,5901
	2,24354,6336
19358	4,28686,04855,2237
	2,24343,0441
19359	4,28688,29198,2678
	2,24331,4559
19360	4,28690,53529,7237
	2,24319,8688
19361	4,28692,77849,5925
	2,24308,2829
19362	4,28695,02157,8754
	2,24296,6983
19363	4,28697,26454,5737
	2,24285,1148
19364	4,28699,50739,6885
	2,24273,5325
19365	4,28701,75013,2210
	2,24261,9514
19366	4,28703,99275,1724
	2,24250,3715
19367	4,28706,23525,5439
	2,24238,7928
19368	4,28708,47764,3367
	2,24227,2154
19369	4,28710,71991,5521
	2,24215,6390
19370	4,28712,96207,1911
	2,24204,0639
19371	4,28715,20411,2550
	2,24192,4900
19372	4,28717,44603,7450
	2,24180,9173
19373	4,28719,68784,6623
	2,24169,3458
19374	4,28721,92954,0081
	2,24157,7754
19375	4,28724,17111,7835
	2,24146,2063
19376	4,28726,41257,9898
	2,24134,6383
19377	4,28728,65392,6281
	2,24123,0716
19378	4,28730,89515,6997
	2,24111,5060
19379	4,28733,13627,2057
	2,24099,9417
19380	4,28735,37727,1474
	2,24088,3785
19381	4,28737,61815,5259
	2,24076,8165
19382	4,28739,85892,3424
	2,24065,2558
19383	4,28742,09957,5982
	2,24053,6962
19384	4,28744,34011,2944
	2,24042,1378
19385	4,28746,58053,4322
	2,24030,5806
19386	4,28748,82084,0128
	2,24019,0246
19387	4,28751,06103,0374
	2,24007,4698
19388	4,28753,30110,5072
	2,23995,9161
19389	4,28755,54106,4233
	2,23984,3637
19390	4,28757,78090,7870
	2,23972,8125
19391	4,28760,02063,5995
	2,23961,2624
19392	4,28762,26024,8619
	2,23949,7136
19393	4,28764,49974,5755
	2,23938,1659
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19396	4,28771,21754,4349
	2,23903,5300
19397	4,28773,45657,9649
	2,23891,9871
19398	4,28775,69549,9520
	2,23880,4454
19399	4,28777,93430,3974
	2,23868,9049
19400	4,28780,17299,3023
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	2,23822,7547
19404	4,28789,12659,5403
	2,23811,2201
19405	4,28791,36470,7604
	2,23799,6867
19406	4,28793,60270,4471
	2,23788,1545
19407	4,28795,84058,6016
	2,23776,6235
19408	4,28798,07835,2251
	2,23765,0936
19409	4,28800,31600,3187
	2,23753,5650
19410	4,28802,55353,8837
	2,23742,0376
19411	4,28804,79095,9213
	2,23730,5113
19412	4,28807,02826,4326
	2,23718,9862
19413	4,28809,26545,4188
	2,23707,4624
19414	4,28811,50252,8812
	2,23695,9396
19415	4,28813,73948,8208
	2,23684,4181
19416	4,28815,97633,2389
	2,23672,8978
19417	4,28818,21306,1367
	2,23661,3786
19418	4,28820,44967,5153
	2,23649,8607
19419	4,28822,68617,3760
	2,23638,3439
19420	4,28824,92255,7199
	2,23626,8283
19421	4,28827,15882,5482
	2,23615,3140
19422	4,28829,39497,8622
	2,23603,8007
19423	4,28831,63101,6629
	2,23592,2887
19424	4,28833,86693,9516
	2,23580,7779
19425	4,28836,10274,7295
	2,23569,2682
19426	4,28838,33843,9977
	2,23557,7598
19427	4,28840,57401,7575
	2,23546,2525
19428	4,28842,80948,0100
	2,23534,7464
19429	4,28845,04482,7564
	2,23523,2415
19430	4,28847,28005,9979
	2,23511,7377
19431	4,28849,51517,7356
	2,23500,2352
19432	4,28851,75017,9708
	2,23488,7338
19433	4,28853,98506,7046
	2,23477,2336
19434	4,28856,21983,9382
	2,23465,7347
19435	4,28858,45449,6729
	2,23454,2368
19436	4,28860,68903,9097
	2,23442,7402
19437	4,28862,92346,6499
	2,23431,2448
19438	4,28865,15777,8947
	2,23419,7505
19439	4,28867,39197,6452
	2,23408,2574
19440	4,28869,62605,9026
	2,23396,7655
19441	4,28871,86002,6681
	2,23385,2748
19442	4,28874,09387,9429
	2,23373,7853
19443	4,28876,32761,7282
	2,23362,2969
19444	4,28878,56124,0251
	2,23350,8097
19445	4,28880,79474,8348
	2,23339,3238
19446	4,28883,02814,1586
	2,23327,8389
19447	4,28885,26141,9975
	2,23316,3553
19448	4,28887,49458,3528
	2,23304,8729
19449	4,28889,72763,2257
	2,23293,3916
19450	4,28891,96056,6173
	2,23281,9115
19451	4,28894,19338,5288
	2,23270,4326
19452	4,28896,42608,9614
	2,23258,9549
19453	4,28898,65867,9163
	2,23247,4783
19454	4,28900,89115,3946
	2,23236,0030
19455	4,28903,12351,3976
	2,23224,5288
19456	4,28905,35575,9264
	2,23213,0558
19457	4,28907,58788,9822
	2,23201,5839
19458	4,28909,81990,5661
	2,23190,1133
19459	4,28912,05180,6794
	2,23178,6439
19460	4,28914,28359,3233
	2,23167,1756
19461	4,28916,51526,4989
	2,23155,7084
19462	4,28918,74682,2073
	2,23144,2425
19463	4,28920,97826,4498
	2,23132,7777
19464	4,28923,20959,2275
	2,23121,3142
19465	4,28925,44080,5417
	2,23109,8518
19466	4,28927,67190,3935
	2,23098,3906
19467	4,28929,90288,7841
	2,23086,9305
19468	4,28932,13375,7146
	2,23075,4716
19469	4,28934,36451,1862
	2,23064,0140
19470	4,28936,59515,2002
	2,23052,5575
19471	4,28938,82567,7577
	2,23041,1021
19472	4,28941,05608,8598
	2,23029,6480
19473	4,28943,28638,5078
	2,23018,1950
19474	4,28945,51656,7028
	2,23006,7432
19475	4,28947,74663,4460
	2,22995,2926
19476	4,28949,97658,7386
	2,22983,8431
19477	4,28952,20642,5817
	2,22972,3948
19478	4,28954,43614,9765
	2,22960,9477
19479	4,28956,66575,9242
	2,22949,5018
19480	4,28958,89525,4260
	2,22938,0570
19481	4,28961,12463,4830
	2,22926,6135
19482	4,28963,35390,0965
	2,22915,1710
19483	4,28965,58305,2675
	2,22903,7298
19484	4,28967,81208,9973
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19485	4,28970,04101,2871
	2,22880,8509
19486	4,28972,26982,1380
	2,22869,4132
19487	4,28974,49851,5512
	2,22857,9766
19488	4,28976,72709,5278
	2,22846,5413
19489	4,28978,95556,0691
	2,22835,1071
19490	4,28981,18391,1762
	2,22823,6741
19491	4,28983,41214,8503
	2,22812,2423
19492	4,28985,64027,0926
	2,22800,8116
19493	4,28987,86827,9042
	2,22789,3821
19494	4,28990,09617,2863
	2,22777,9538
19495	4,28992,32395,2401
	2,22766,5266
19496	4,28994,55161,7667
	2,22755,1007
19497	4,28996,77916,8674
	2,22743,6758
19498	4,28999,00660,5432
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19499	4,29001,23392,7954
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19500	4,29003,46113,6252
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	2,22675,1516
19504	4,29012,36882,7431
	2,22663,7350
19505	4,29014,59546,4781
	2,22652,3196
19506	4,29016,82198,7977
	2,22640,9053
19507	4,29019,04839,7030
	2,22629,4923
19508	4,29021,27469,1953
	2,22618,0803
19509	4,29023,50087,2756
	2,22606,6696
19510	4,29025,72693,9452
	2,22595,2600
19511	4,29027,95289,2052
	2,22583,8516
19512	4,29030,17873,0568
	2,22572,4443
19513	4,29032,40445,5011
	2,22561,0383
19514	4,29034,63006,5394
	2,22549,6333
19515	4,29036,85556,1727
	2,22538,2296
19516	4,29039,08094,4023
	2,22526,8271
19517	4,29041,30621,2294
	2,22515,4256
19518	4,29043,53136,6550
	2,22504,0254
19519	4,29045,75640,6804
	2,22492,6263
19520	4,29047,98133,3067
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19521	4,29950,20614,5351
	2,22469,8317
19522	4,29052,43084,3668
	2,22458,4362
19523	4,29054,65542,8030
	2,22447,0418
19524	4,29056,87989,8448
	2,22435,6485
19525	4,29059,10425,4933
	2,22424,2565
19526	4,29061,32849,7498
	2,22412,8656
19527	4,29063,55262,6154
	2,22401,4759
19528	4,29065,77664,0913
	2,22390,0873
19529	4,29068,00054,1786
	2,22378,6999
19530	4,29070,22432,8785
	2,22367,3137
19531	4,29072,44800,1922
	2,22355,9286
19532	4,29074,67156,1208
	2,22344,5447
19533	4,29076,89500,6655
	2,22333,1620
19534	4,29079,11833,8275
	2,22321,7805
19535	4,29081,34155,6080
	2,22310,4000
19536	4,29083,56466,0080
	2,22299,0208
19537	4,29085,78765,0288
	2,22287,6427
19538	4,29088,01052,6715
	2,22276,2659
19539	4,29090,23328,9374
	2,22264,8901
19540	4,29092,45593,8275
	2,22253,5155
19541	4,29094,67847,3430
	2,22242,1421
19542	4,29096,90089,4851
	2,22230,7699
19543	4,29099,12320,2550
	2,22219,3988
19544	4,29101,34539,6538
	2,22208,0289
19545	4,29103,56747,6827
	2,22196,6601
19546	4,29105,78944,3428
	2,22185,2925
19547	4,29108,01129,6353
	2,22173,9261
19548	4,29110,23303,5614
	2,22162,5608
19549	4,29112,45466,1222
	2,22151,1967
19550	4,29114,67617,3189
	2,22139,8337
19551	4,29116,89757,1526
	2,22128,4720
19552	4,29119,11885,6246
	2,22117,1114
19553	4,29121,34002,7360
	2,22105,7519
19554	4,29123,56108,4879
	2,22094,3936
19555	4,29125,78202,8815
	2,22083,0365
19556	4,29128,00285,9180
	2,22071,6805
19557	4,29130,22357,5985
	2,22060,3257
19558	4,29132,44417,9242
	2,22048,9720
19559	4,29134,66466,8962
	2,22037,6196
19560	4,29136,88504,5158
	2,22026,2682
19561	4,29139,10530,7840
	2,22014,9181
19562	4,29141,32545,7021
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19563	4,29143,54549,2712
	2,21992,2212
19564	4,29145,76541,4924
	2,21980,8746
19565	4,29147,98522,3670
	2,21969,5290
19566	4,29150,20491,8960
	2,21958,1847
19567	4,29152,42450,0807
	2,21946,8414
19568	4,29154,64396,9221
	2,21935,4994
19569	4,29156,46332,4215
	2,21924,1585
19570	4,29159,08256,5800
	2,21912,8188
19571	4,29161,30169,3988
	2,21901,4802
19572	4,29163,52070,8790
	2,21890,1428
19573	4,29165,73961,0218
	2,21878,8065
19574	4,29167,95839,8283
	2,21867,4715
19575	4,29170,17707,2998
	2,21856,1375
19576	4,29172,39563,4373
	2,21844,8048
19577	4,29174,61408,2421
	2,21833,4731
19578	4,29176,83241,7152
	2,21822,1427
19579	4,29179,05063,8579
	2,21810,8133
19580	4,29181,26874,6712
	2,21799,4852
19581	4,29183,48674,1564
	2,21788,1582
19582	4,29185,70462,3146
	2,21776,8323
19583	4,29187,92239,1469
	2,21765,5077
19584	4,29190,14004,6546
	2,21754,1842
19585	4,29192,35758,8388
	2,21743,8618
19586	4,29194,57501,7006
	2,21731,5406
19587	4,29196,79233,2412
	2,21720,2206
19588	4,29199,00953,4618
	2,21708,9016
19589	4,29201,22662,3634
	2,21697,5839
19590	4,29203,44359,9473
	2,21686,2673
19591	4,29205,66046,2146
	2,21674,9519
19592	4,29207,87721,1665
	2,21663,6376
19593	4,29210,09384,8041
	2,21652,3245
19594	4,29212,31037,1286
	2,21641,0126
19595	4,29214,52678,1412
	2,21629,7017
19596	4,29216,74307,8429
	2,21618,3921
19597	4,29218,95926,2350
	2,21607,0836
19598	4,29221,17533,3186
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19599	4,29223,39129,0948
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19603	4,29232, 25399,1492
	2, 21539,2568
19604	4,29234, 46938,4060
	2, 21527,9563
19605	4,29236, 68466,3623
	2, 21516,6571
19606	4,29238, 89983,0194
	2, 21505,3589
19607	4,29241, 11488,3783
	2, 21494,0620
19608	4,29243, 32982,4403
	2, 21482,7661
19609	4,29245, 54465,2064
	2, 21471,4715
19610	4,29247, 75936,6779
	2, 21460,1780
19611	4,29249, 97396,8559
	2, 21448,8856
19612	4,29252, 18845,7415
	2, 21437,5944
19613	4,29254, 40283,3359
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19614	4,29256, 61709,6402
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19615	4,29258, 83124,6556
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19616	4,29261, 04528,3833
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19617	4,29263, 25920,8243
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19618	4,29265, 47301,9799
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19619	4,29267, 68671,8512
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19620	4,29269, 90030,4393
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19637	4,29307, 51401,2287
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19638	4,29309, 72556,9166
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19639	4,29311, 93701,3431
	2, 21133,1663
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19642	4,29318, 57067,0661
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19643	4,29320, 78166,4587
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19647	4,29329, 62451,4847
	2, 21043,1261
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	2, 20896,9670
19661	4,29360, 56031,9281
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19662	4,29362, 76917,6601
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19672	4,29384, 85157,3067
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19673	4,29387, 05919,5291
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19674	4,29389, 26670,5302
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19676	4,29393, 68138,8730
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19677	4,29395, 88856,2171
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19684	4,29411, 33563,6205
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19686	4,29415, 74807,6969
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19687	4,29417, 95412,9249
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19688	4,29420, 16006,9475
	2, 20582,8184
19689	4,29422, 36589,7659
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19691	4,29426, 77721,7946
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19692	4,29428, 98271,0072
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19694	4,29433, 39335,8346
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19695	4,29435, 59851,4517
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19696	4,29437, 80355,8725
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19697	4,29440, 00849,0982
	2, 20482,0317
19698	4,29442, 21331,1299
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	2,20414,8918
19704	4,29455,43988,3105
	2,20403,7057
19705	4,29457,64392,0162
	2,20392,5209
19706	4,29459,84784,5371
	2,20381,3371
19707	4,29462,05165,8742
	2,20370,1545
19708	4,29464,25536,0287
	2,20358,9730
19709	4,29466,45895,0017
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19710	4,29468,66242,7944
	2,20336,6135
19711	4,29470,86579,4079
	2,20325,4354
19712	4,29473,06904,8433
	2,20314,2585
19713	4,29475,27219,1018
	2,20303,0826
19714	4,29477,47522,1844
	2,20291,9080
19715	4,29479,67814,0924
	2,20280,7345
19716	4,29481,88094,8269
	2,20269,5620
19717	4,29484,08364,3889
	2,20258,3908
19718	4,29486,28622,7797
	2,20247,2206
19719	4,29488,48870,0003
	2,20236,0516
19720	4,29490,69106,0519
	2,20224,8837
19721	4,29492,89330,9356
	2,20213,7170
19722	4,29495,09544,6526
	2,20202,5514
19723	4,29497,29747,2040
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19724	4,29499,49938,5909
	2,20180,2236
19725	4,29501,70118,8145
	2,20169,0613
19726	4,29503,90287,8758
	2,20157,9003
19727	4,29506,10445,7761
	2,20146,7403
19728	4,29508,30592,5164
	2,20135,5815
19729	4,29510,50728,0979
	2,20124,4238
19730	4,29512,70852,5217
	2,20113,2673
19731	4,29514,90965,7890
	2,20102,1118
19732	4,29517,11067,9008
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19733	4,29519,31158,8583
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19734	4,29521,51238,6627
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Num. absolut.	Logarithmi.
19734	4,29521,51238,6627
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19736	4,29525,91364,8166
	2,20046,3517
19737	4,29528,11411,1683
	2,20035,2030
19738	4,29530,31446,3713
	2,20024,0556
19739	4,29532,51470,4269
	2,20012,9092
19740	4,29534,71483,3361
	2,20001,7639
19741	4,29536,91485,1000
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19742	4,29539,11475,7198
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19743	4,29541,31455,1966
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19744	4,29543,51423,5315
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19745	4,29545,71380,7257
	2,19946,0545
19746	4,29547,91326,7802
	2,19934,9160
19747	4,29550,11261,6962
	2,19923,7787
19748	4,29552,41185,4749
	2,19912,6425
19749	4,29554,51098,1174
	2,19901,5074
19750	4,29556,70999,6248
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19751	4,29558,90889,9982
	2,19879,2406
19752	4,29561,10769,2388
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19753	4,29563,30637,3476
	2,19856,9782
19754	4,29565,50494,3258
	2,19845,8488
19755	4,29567,70340,1746
	2,19834,7205
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	2,19823,5932
19757	4,29572,09998,4883
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19758	4,29574,29810,9555
	2,19801,3422
19759	4,29576,49612,2977
	2,19790,2184
19760	4,29578,69402,5161
	2,19779,0957
19761	4,29580,89181,6118
	2,19767,9741
19762	4,29583,08949,5859
	2,19756,8536
19763	4,29585,28706,4395
	2,19745,7343
19764	4,29587,48452,1738
	2,19734,6161
19765	4,29589,68186,7899
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19766	4,29591,87910,2889
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19767	4,29594,07622,6720
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Num. absolut.	Logarithmi.
19767	4,29594,07622,6720
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19768	4,29596,27323,9402
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19770	4,29600,66693,1367
	2,19667,9305
19771	4,29602,86361,0672
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19772	4,29605,06017,8874
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19773	4,29607,25663,5983
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19774	4,29609,45298,2012
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	2,19612,3901
19776	4,29613,84534,0872
	2,19601,2854
19777	4,29616,04135,3726
	2,19590,1817
19778	4,29618,23725,5543
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19779	4,29620,43304,6336
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19780	4,29622,62872,6116
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19781	4,29624,82429,4893
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19782	4,29627,01975,2679
	2,19534,6807
19783	4,29629,21509,9486
	2,19523,5838
19784	4,29631,41033,5324
	2,19512,4881
19785	4,29633,60546,0205
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19786	4,29635,80047,4139
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19787	4,29637,99537,7139
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19788	4,29640,19016,9215
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19790	4,29644,57942,0640
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19791	4,29646,77388,0012
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19792	4,29648,96822,8505
	2,19423,7625
19793	4,29651,16246,6130
	2,19412,6769
19794	4,29653,35659,2899
	2,19401,5924
19795	4,29655,55060,8823
	2,19390,5089
19796	4,29657,74451,3912
	2,19379,4267
19797	4,29659,93830,8179
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19798	4,29662,13199,1634
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	2,19301,8820
19804	4,29675,29176,5944
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19805	4,29677,48467,4031
	2,19279,7364
19806	4,29679,67747,1395
	2,19268,6654
19807	4,29681,87015,8049
	2,19257,5954
19808	4,29684,06273,4003
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19809	4,29686,25519,9268
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19810	4,29688,44755,3855
	2,19224,3921
19811	4,29690,63979,7776
	2,19213,3266
19812	4,29692,83193,1042
	2,19202,2622
19813	4,29695,02395,3664
	2,19191,1989
19814	4,29697,21586,5653
	2,19180,1368
19815	4,29699,40766,7021
	2,19169,0757
19816	4,29701,59935,7778
	2,19158,0158
19817	4,29703,79093,7936
	2,19146,9570
19818	4,29705,98240,7506
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19819	4,29708,17376,6499
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19820	4,29710,36501,4926
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19821	4,29712,55615,2798
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19823	4,29716,93809,6923
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19825	4,29721,31959,8964
	2,19058,5266
19826	4,29723,51018,4230
	2,19047,4779
19827	4,29725,70065,9009
	2,19036,4302
19828	4,29727,89102,3311
	2,19025,3837
19829	4,29730,08127,7148
	2,19014,3382
19830	4,29732,27142,0530
	2,19003,2939
19831	4,29734,46145,3469
	2,18992,2507
19832	4,29736,65137,5976
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19833	4,29738,84118,8062
	2,18970,1677
19834	4,29741,03088,9739
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Num. absolut.	Logarithmi.
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19835	4,29743,22048,1017
	2,18948,0890
19836	4,29745,40996,1907
	2,18937,0514
19837	4,29747,59933,2421
	2,18926,0149
19838	4,29749,78859,2570
	2,18914,9794
19839	4,29751,97774,2364
	2,18903,9452
19840	4,29754,16678,1816
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19841	4,29756,35571,0936
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19842	4,29758,54452,9735
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19843	4,29760,73323,8224
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19844	4,29762,92183,6415
	2,18848,7903
19845	4,29765,11032,4318
	2,18837,7627
19846	4,29767,29870,1945
	2,18826,7362
19847	4,29769,48696,9307
	2,18815,7108
19848	4,29771,67512,6415
	2,18804,6865
19849	4,29773,86317,3280
	2,18793,6633
19850	4,29776,05110,9913
	2,18782,6412
19851	4,29778,23893,6325
	2,18771,6203
19852	4,29780,42665,2528
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19853	4,29782,61425,8532
	2,18749,5817
19854	4,29784,80175,4349
	2,18738,5641
19855	4,29786,98913,9990
	2,18727,5475
19856	4,29789,17641,5465
	2,18716,5321
19857	4,29791,36358,0786
	2,18705,5178
19858	4,29793,55063,5964
	2,18694,5046
19859	4,29795,73758,1010
	2,18683,4926
19860	4,29797,92441,5936
	2,18672,4816
19861	4,29800,11114,0752
	2,18661,4717
19862	4,29802,29775,5469
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19863	4,29804,48426,0098
	2,18639,4553
19864	4,29806,67065,4651
	2,18628,4487
19865	4,29808,85693,9138
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19866	4,29811,04311,3571
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19867	4,29813,22917,7961
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Num. absolut.	Logarithmi.
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19868	4,29815,41513,2318
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19869	4,29817,60097,6654
	2,18573,4322
19870	4,29819,78671,0981
	2,18562,4327
19871	4,29821,97233,5308
	2,18551,4340
19872	4,29824,15784,9648
	2,18540,4363
19873	4,29826,34325,4011
	2,18529,4397
19874	4,29828,52854,8408
	2,18518,4442
19875	4,29830,71373,2850
	2,18507,4499
19876	4,29832,89880,7349
	2,18496,4566
19877	4,29835,08377,1915
	2,18485,4645
19878	4,29837,26862,6560
	2,18474,4734
19879	4,29839,45337,1294
	2,18463,4835
19880	4,29841,63800,6129
	2,18452,4947
19881	4,29843,82253,1076
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19882	4,29846,00694,6145
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19883	4,29848,19125,1348
	2,18419,5348
19884	4,29850,37544,6696
	2,18408,5504
19885	4,29852,55953,2200
	2,18397,5671
19886	4,29854,74350,7871
	2,18386,5849
19887	4,29856,92737,3720
	2,18375,6037
19888	4,29859,11112,9757
	2,18364,6238
19889	4,29861,29477,5995
	2,18353,6449
19890	4,29863,47831,2444
	2,18342,6671
19891	4,29865,66173,9115
	2,18331,6904
19892	4,29867,84505,6019
	2,18320,7148
19893	4,29870,02826,3167
	2,18309,7404
19894	4,29872,21136,0571
	2,18298,7670
19895	4,29874,39434,8241
	2,18287,7947
19896	4,29876,57722,6188
	2,18276,8236
19897	4,29878,75999,4424
	2,18265,8535
19898	4,29880,94265,2959
	2,18254,8845
19899	4,29883,12520,1804
	2,18243,9167
19900	4,29885,30764,0971
	2,18232,9499

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19901	4,29887,48997,0470
	2,18221,9843
19902	4,29889,67219,0313
	2,18211,0197
19903	4,29891,85430,0510
	2,18200,0563
19904	4,29894,03630,1073
	2,18189,0939
19905	4,29896,21819,2012
	2,18178,1327
19906	4,29898,39997,3339
	2,18167,1725
19907	4,29900,58164,5064
	2,18156,2135
19908	4,29902,76320,7199
	2,18145,2555
19909	4,29904,94465,9754
	2,18134,2987
19910	4,29907,12600,2741
	2,18123,3430
19911	4,29909,30723,6171
	2,18112,3883
19912	4,29911,48836,0054
	2,18101,4348
19913	4,29913,66937,4402
	2,18090,4823
19914	4,29915,85027,9225
	2,18079,5310
19915	4,29918,03107,4535
	2,18068,5808
19916	4,29920,21176,0343
	2,18057,6316
19917	4,29922,39233,6659
	2,18046,6835
19918	4,29924,57280,3494
	2,18035,7367
19919	4,29926,75316,0861
	2,18024,7908
19920	4,29928,93340,8769
	2,18013,8460
19921	4,29931,11354,7229
	2,18002,9024
19922	4,29933,29357,6253
	2,17991,9598
19923	4,29935,47349,5851
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	2,17970,0781
19925	4,29939,83300,6816
	2,17959,1388
19926	4,29942,01259,8204
	2,17948,2006
19927	4,29944,19208,0210
	2,17937,2636
19928	4,29946,37145,2846
	2,17926,3276
19929	4,29948,55071,6122
	2,17915,3927
19930	4,29950,72987,0049
	2,17904,4590
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	48113,5421
90265	4,95551,93864,8821
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90266	4,95552,41977,8912
	48112,4760
90267	4,95552,90090,3672
	48111,9430

Num. absolut.	Logarithmi.
90267	4,95552,90090,3672
	48111,9430
90268	4,95553,38202,3102
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90269	4,95553,86313,7203
	48110,8771
90270	4,95554,34424,5974
	48110,3441
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	48109,8112
90272	4,95555,30644,7527
	48109,2782
90273	4,95555,78754,0309
	48108,7453
90274	4,95556,26862,7762
	48108,2124
90275	4,95556,74970,9886
	48107,6795
90276	4,95557,23078,6681
	48107,1466
90277	4,95557,71185,8147
	48106,6137
90278	4,95558,19292,4284
	48106,0808
90279	4,95558,67398,5092
	48105,5480
90280	4,95559,15504,0572
	48105,0151
90281	4,95559,63609,0723
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	48103,9495
90283	4,95560,59817,5041
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	48102,3511
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	48101,2855
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	48100,7528
90289	4,95563,48430,0124
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	48099,1546
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	48098,6219
90293	4,95565,40827,6963
	48098,0892
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90295	4,95566,37023,3421
	48097,0239
90296	4,95566,85120,3660
	48096,4912
90297	4,95567,33216,8572
	48095,9586
90298	4,95567,81312,8158
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90307	4,95572,14152,4758
	48090,6328
90308	4,95572,62243,1086
	48090,1003
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	48089,5677
90310	4,95573,58422,7766
	48089,0353
90311	4,95574,06511,8119
	48088,5028
90312	4,95574,54600,3147
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	48082,6463
90323	4,95579,83538,7050
	48082,1140
90324	4,95580,31620,8190
	48081,5816
90325	4,95580,79702,4006
	48081,0493
90326	4,95581,27783,4499
	48080,5170
90327	4,95581,75863,9669
	48079,9847
90328	4,95582,23943,9516
	48079,4524
90329	4,95582,72023,4040
	48078,9202
90330	4,95583,20102,3242
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	48077,8557
90332	4,95584,16258,5678
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90333	4,95584,64335,8912
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	48074,1303
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	48073,5981
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	48073,0660
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	48072,5339
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	48072,0018
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90346	4,95590,89292,6681
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	48069,3414
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	48056,0438
90373	4,95603,86992,5335
	48055,5121
90374	4,95604,35048,0456
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90375	4,95604,83103,0259
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	48046,4741
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90406	4,95619,72543,7382
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	48037,4396
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	48036,9083
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	48035,3143
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	48034,2517
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	48021,5046
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90444	4,95637,97613,1941
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	48013,0102
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	48012,4794
90455	4,95643,25779,6634
	48011,9486
90456	4,95643,73791,6120
	48011,4178
90457	4,95644,21803,0298
	48010,8871
90458	4,95644,69813,9169
	48010,3564
90459	4,95645,17824,2733
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90460	4,95645,65834,0989
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90461	4,95646,13843,3938
	48008,7641
90462	4,95646,61852,1579
	48008,2335
90463	4,95647,09860,3914
	48007,7028
90464	4,95647,57868,0942
	48007,1721
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	48004,5189
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	48003,4576
90472	4,95651,41910,6129
	48002,9271
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90483	4,95656,69913,6310
	47997,0914
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	47995,5001
90487	4,95658,61898,8139
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90488	4,95659,09893,7835
	47994,4393
90489	4,95659,57888,2228
	47993,9089
90490	4,95660,05882,1317
	47993,3785
90491	4,95660,53875,5102
	47992,8482
90492	4,95661,01868,3584
	47992,3178
90493	4,95661,49860,6762
	47991,7875
90494	4,95661,97852,4637
	47991,2571
90495	4,95662,45843,7208
	47990,7268
90496	4,95662,93834,4476
	47990,1965
90497	4,95663,41824,6441
	47989,6662
90498	4,95663,89814,3103
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90499	4,95664,37803,4463
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	47986,4847
90504	4,95666,77741,1722
	47985,9545
90505	4,95667,25727,1267
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90506	4,95667,73712,5510
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	47984,3639
90508	4,95668,69681,8090
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	47982,2434
90512	4,95670,61613,9633
	47981,7132
90513	4,95671,09595,6765
	47981,1831
90514	4,95671,57576,8596
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90515	4,95672,05557,5126
	47980,1230
90516	4,95672,53537,6356
	47979,5929
90517	4,95673,01517,2285
	47979,0628
90518	4,95673,49496,2913
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90519	4,95673,97474,8241
	47978,0027
90520	4,95674,45452,8268
	48977,4727
90521	4,95674,93430,2995
	47976,9427
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	47976,4127
90523	4,95675,89383,6549
	47975,8827
90524	4,95676,37359,5376
	47975,3528
90525	4,95676,85334,8904
	47974,8228
90526	4,95677,33309,7132
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90527	4,95677,81284,0060
	47973,7629
90528	4,95678,29257,7689
	47973,2329
90529	4,95678,77231,0018
	47972,7030
90530	4,95679,25203,7048
	47972,1731
90531	4,95679,73175,8779
	47971,6432
90532	4,95680,21147,5211
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90533	4,95680,69118,6345
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90535	4,95681,65059,2716
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90536	4,95682,13028,7954
	47968,9939
90537	4,95682,60997,7893
	47968,4641
90538	4,95683,08966,2534
	47967,9343
90539	4,95683,56934,1877
	47967,4045
90540	4,95684,04901,5922
	47966,8747
90541	4,95684,52868,4669
	47966,3449
90542	4,95685,00834,8118
	47965,8152
90543	4,95685,48800,6270
	47965,2854
90544	4,95685,96765,9124
	47964,7557
90545	4,95686,44730,6681
	47964,2259
90546	4,95686,92694,8940
	47963,6962
90547	4,95687,40658,5902
	47963,1665
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	47962,6368
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	47961,5774
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	47961,0478
90552	4,95689,80469,1259
	47960,5182
90553	4,95690,28429,6441
	47959,9885
90554	4,95690,76389,6326
	47959,4589
90555	4,95691,24349,0915
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90556	4,95691,72308,0208
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90557	4,95692,20266,4204
	47957,8701
90558	4,95692,68224,2905
	47957,3405
90559	4,95693,16181,6310
	47956,8109
90560	4,95693,64138,4419
	47956,2813
90561	4,95694,12094,7232
	47955,7518
90562	4,95694,60050,4750
	47955,2223
90563	4,95695,08005,6973
	47954,6928
90564	4,95695,55960,3901
	47954,1633
90565	4,95696,03914,5534
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90566	4,95696,51868,1872
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90568	4,95697,47773,8663
	47952,0453
90569	4,95697,95725,9116
	47951,5159
90570	4,95698,43677,4275
	47950,9865
90571	4,95698,91628,4140
	47950,4571
90572	4,95699,39578,8711
	47949,9276
90573	4,95699,87528,7987
	47949,3982
90574	4,95700,35478,1969
	47948,8688
90575	4,95700,83427,0657
	47948,3394
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	47947,8101
90577	4,95701,79323,2152
	47947,2807
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90579	4,95702,75217,2473
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90582	4,95704,19054,3254
	47944,6341
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90585	4,95705,62886,6399
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90586	4,95706,10829,6862
	47942,5170
90587	4,95706,58772,2032
	47941,9878
90588	4,95707,06714,1910
	47941,4586
90589	4,95707,54655,6496
	47940,9293
90590	4,95708,02596,5789
	47940,4001
90591	4,95708,50536,9790
	47939,8709
90592	4,95708,98476,8499
	47939,3418
90593	4,95709,46416,1917
	47938,8126
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90595	4,95710,42293,2878
	47937,7545
90596	4,95710,90231,0421
	47937,2252
90597	4,95711,38168,2673
	47936,6961
90598	4,95711,86104,9634
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	47572,8013
91291	4,96042,79643,5796
	47572,2802
91292	4,96043,27215,8598
	47571,7591
91293	4,96043,74787,6189
	47571,2380
91294	4,96044,22358,8569
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91295	4,96044,69929,5739
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91296	4,96045,17499,7698
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	47565,5068
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	47564,9859
91306	4,96049,93173,0728
	47564,4649
91307	4,96050,40737,5377
	47563,9440
91308	4,96050,88301,4817
	47563,4231
91309	4,96051,35864,9048
	47562,9022
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	47562,3813
91311	4,96052,30990,1883
	47561,8604
91312	4,96052,78552,0487
	47561,3396
91313	4,96053,26113,3883
	47560,8187
91314	4,96053,73674,2070
	47560,2979
91315	4,96054,21234,5049
	47559,7770
91316	4,96054,68794,2819
	47559,2562
91317	4,96055,16353,5381
	47558,7354
91318	4,96055,63912,2735
	47558,2146
91319	4,96056,11470,4881
	47557,6938
91320	4,96056,59028,1819
	47557,1730
91321	4,96057,06585,3549
	47556,6523
91322	4,96057,54142,0072
	47556,1315
91323	4,96058,01698,1387
	47555,6108
91324	4,96058,49253,7495
	47555,0900
91325	4,96058,96808,8395
	47554,5693
91326	4,96059,44363,4088
	47554,0485
91327	4,96059,91917,4573
	47553,5280
91328	4,96060,39470,9853
	47553,0072
91329	4,96060,87023,9925
	47552,4865
91330	4,96061,34576,4790
	47551,9658
91331	4,96061,82128,4448
	47551,4452
91332	4,96062,29679,8900
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Num. absolut.	Logarithmi.
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91335	4,96063,72331,1019
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91336	4,96064,19880,4646
	47548,8421
91337	4,96064,67429,3067
	47548,3216
91338	4,96065,14977,6283
	47547,8010
91339	4,96065,62525,4293
	47547,2804
91340	4,96066,10072,7097
	47546,7598
91341	4,96066,57619,4695
	47546,2393
91342	4,96067,05165,7088
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91343	4,96067,52711,4276
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91348	4,96069,90432,2142
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	47542,0754
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	47541,5550
91351	4,96071,33058,4405
	47541,0346
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91365	4,96077,98585,5710
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91371	4,96080,83780,2664
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91372	4,96081,31310,8949
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91373	4,96081,78841,0032
	47529,5881
91374	4,96082,26370,5913
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91376	4,96083,21428,2070
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	47526,9874
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91381	4,96085,59063,1441
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	47519,7070
91393	4,96091,29333,9475
	47519,1870
91394	4,96091,76853,1345
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91395	4,96092,24371,8016
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91396	4,96092,71889,9488
	47517,6272
91397	4,96093,19407,5760
	47517,1073
91398	4,96093,66924,6833
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	47512,4287
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	47511,9090
91408	4,96098,42067,1648
	47511,3892
91409	4,96098,89578,5540
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91410	4,96099,37089,4234
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91411	4,96099,84599,7730
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	47509,3102
91413	4,96100,79618,9131
	47508,7905
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	47507,2314
91417	4,96102,69650,9569
	47506,7118
91418	4,96103,17157,6687
	47506,1921
91419	4,96103,64663,8608
	47505,6724
91420	4,96104,12169,5332
	47505,1528
91421	4,96104,59674,6860
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91423	4,96105,54683,4326
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91426	4,96106,97192,5555
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91457	4,96121,69514,2019
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91462	4,96124,06938,6895
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91465	4,96125,49387,1376
	47481,7808
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	47481,2617
91467	4,96126,44350,1801
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	47480,2234
91469	4,96127,39311,6460
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91470	4,96127,86790,3504
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	47478,6662
91472	4,96128,81748,7019
	47478,1472
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91486	4,96135,46395,5344
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91487	4,96135,93866,4161
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91492	4,96138,31213,0417
	47467,7685
91493	4,96138,78680,8103
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	47461,5436
91505	4,96144,48253,5696
	47461,0250
91506	4,96144,95714,5946
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91507	4,96145,43175,1009
	47459,9876
91508	4,96145,90635,0885
	47459,4690
91509	4,96146,38094,5575
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91510	4,96146,85553,5079
	47458,4317
91511	4,96147,33011,9396
	47457,9131
91512	4,96147,80469,8527
	47457,3946
91513	4,96148,27927,2473
	47456,8760
91514	4,96148,75384,1233
	47456,3574
91515	4,96149,22840,4807
	47455,8388
91516	4,96149,70296,3195
	47455,3203
91517	4,96150,17751,6398
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91518	4,96150,65206,4416
	47454,2832
91519	4,96151,12660,7248
	47453,7647
91520	4,96151,60114,4895
	47453,2462
91521	4,96152,07567,7357
	47452,7277
91522	4,96152,55020,4634
	47452,2092
91523	4,96153,02472,6726
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91524	4,96153,49924,3634
	47451,1723
91525	4,96153,97375,5357
	47450,6538
91526	4,96154,44826,1895
	47450,1354
91527	4,96154,92276,3249
	47449,6170
91528	4,96155,39725,9419
	47449,0986
91529	4,96155,87175,0405
	47448,5802
91530	4,96156,34623,6207
	47448,0618
91531	4,96156,82071,6825
	47447,5434
91532	4,96157,29519,2259
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91533	4,96157,76966,2510
	47446,5067
91534	4,96158,24412,7577
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Num. absolut.	Logarithmi.
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91535	4,96158,71858,7460
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91536	4,96159,19304,2160
	47444,9517
91537	4,96159,66749,1677
	47444,4334
91538	4,96160,14193,6011
	47443,9150
91539	4,96160,61637,5161
	47443,3968
91540	4,96161,09080,9129
	47442,8785
91541	4,96161,56523,7914
	47442,3602
91542	4,96162,03966,1516
	47441,8420
91543	4,96162,51407,9936
	47441,3237
91544	4,96162,98849,3173
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91545	4,96163,46290,1228
	47440,2873
91546	4,96163,93730,4101
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91547	4,96164,41170,1791
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91548	4,96164,88609,4300
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91549	4,96165,36048,162,
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91550	4,96165,83486,3772
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91551	4,96166,30924,0735
	47437,1782
91552	4,96166,78361,2517
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91553	4,96167,25797,9117
	47436,1419
91554	4,96167,73234,0536
	47435,6238
91555	4,96168,20669,6774
	47435,1057
91556	4,96168,68104,7831
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91557	4,96169,15539,3707
	47434,0695
91558	4,96169,62973,4402
	47433,5515
91559	4,96170,10406,9917
	47433,0334
91560	4,96170,57840,0251
	47432,5153
91561	4,96171,05272,5404
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91562	4,96171,52704,5377
	47431,4793
91563	4,96172,00136,0170
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91564	4,96172,47566,9782
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91565	4,96172,94997,4214
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91566	4,96173,42427,3466
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91567	4,96173,89856,7538
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91570	4,96175,32141,8678
	47427,3354
91571	4,96175,79569,2032
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91572	4,96176,26996,0207
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91573	4,96176,74422,3203
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91574	4,96177,21848,1020
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91575	4,96177,69273,3658
	47424,7459
91576	4,96178,16698,1117
	47424,2281
91577	4,96178,64122,3398
	47423,7102
91578	4,96179,11546,0500
	47423,1923
91579	4,96179,58969,2423
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91580	4,96180,06391,9168
	47422,1567
91581	4,96180,53814,0735
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91583	4,96181,48656,8334
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91584	4,96181,96077,4366
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91585	4,96182,43497,5221
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91587	4,96183,38336,1397
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91588	4,96183,85754,6719
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91589	4,96184,33172,6864
	47417,4968
91590	4,96184,80590,1832
	47416,9790
91591	4,96185,28007,1622
	47416,4613
91592	4,96185,75423,6235
	47415,9437
91593	4,96186,22839,5672
	47415,4260
91594	4,96186,70254,9932
	47414,9083
91595	4,96187,17669,9015
	47414,3907
91596	4,96187,65084,2922
	47413,8730
91597	4,96188,12498,1652
	47413,3554
91598	4,96188,59911,5206
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91599	4,96189,07324,3584
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91603	4, 96190, 96970, 5334
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91604	4, 96191, 44380, 7832
	47409, 7323
91605	4, 96191, 91790, 5155
	47409, 2147
91606	4, 96192, 39199, 7302
	47408, 6972
91607	4, 96192, 86608, 4274
	47408, 1797
91608	4, 96193, 34016, 6071
	47407, 6621
91609	4, 96193, 81424, 2692
	47407, 1447
91610	4, 96194, 28831, 4139
	47406, 6272
91611	4, 96194, 76238, 0411
	47406, 1097
91612	4, 96195, 23644, 1508
	47405, 5922
91613	4, 96195, 71049, 7430
	47405, 0748
91614	4, 96196, 18454, 8178
	47404, 5574
91615	4, 96196, 65859, 3752
	47404, 0399
91616	4, 96197, 13263, 4151
	47403, 5225
91617	4, 96197, 60666, 9376
	47403, 0051
91618	4, 96198, 08069, 9427
	47402, 4877
91619	4, 96198, 55472, 4304
	47401, 9703
91620	4, 96199, 02874, 4007
	47401, 4529
91621	4, 96199, 50275, 8536
	47400, 9356
91622	4, 96199, 97676, 7892
	47400, 4182
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91642	4, 96209, 45586, 8722
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91668	4, 96221, 77560, 7530
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91670	4, 96222, 72313, 5009
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91678	4, 96226, 51303, 8207
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91682	4, 96228, 40786, 5789
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91683	4, 96228, 88155, 9768
	47368, 8812
91684	4, 96229, 35524, 8580
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91687	4, 96230, 77628, 4017
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91688	4, 96231, 24995, 2163
	47366, 2981
91689	4, 96231, 72361, 5144
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	47364, 2318
91693	4, 96233, 61821, 5407
	47363, 7152
91694	4, 96234, 09185, 2559
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91695	4, 96234, 56548, 4546
	47362, 6822
91696	4, 96235, 03911, 1368
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91697	4, 96235, 51273, 3024
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91707	4,96240,24866,5526
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91708	4,96240,72223,0373
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91709	4,96241,19579,0056
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91711	4,96242,14289,3931
	47354,4192
91712	4,96242,61643,8123
	47353,9029
91713	4,96243,08997,7152
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91715	4,96244,03703,9720
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91716	4,96244,51056,3259
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91717	4,96244,98408,1636
	47351,3214
91718	4,96245,45759,4850
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	47350,2889
91720	4,96246,40460,5790
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91721	4,96246,87810,3516
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91722	4,96247,35159,6080
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91727	4,96249,71898,1469
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91728	4,96250,19244,3061
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91729	4,96250,66589,9491
	47345,1269
91730	4,96251,13935,0760
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91731	4,96251,61279,6868
	47344,0947
91732	4,96252,08623,7815
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91733	4,96252,55967,3601
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Num. absolut.	Logarithmi.
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91737	4,96254,45336,5133
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91738	4,96254,92677,5115
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91739	4,96255,40017,9936
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91740	4,96255,87357,9597
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91741	4,96256,34697,4098
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91742	4,96256,82036,3439
	47338,4181
91743	4,96257,29374,7620
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91744	4,96257,76712,6640
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91747	4,96259,18723,2744
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91748	4,96259,66059,1126
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91750	4,96260,60729,2413
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91751	4,96261,08063,5318
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91760	4,96265,34048,9322
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91762	4,96266,28706,6804
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91763	4,96266,76034,7809
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91764	4,96267,23362,3656
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	47322,4277
91774	4,96271,96609,8482
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91775	4,96272,43931,7603
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91777	4,96273,38574,0376
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91783	4,96276,22488,4953
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91806	4,96287,10655,3393
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91807	4,96287,57960,7569
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91808	4,96288,05265,6592
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91809	4,96288,52570,0462
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91813	4,96290,41782,4421
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91815	4,96291,36385,5488
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	47286,3602
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91852	4,96308,86171,4165
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91858	4,96311,69854,0568
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91859	4,96312,17132,6953
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91861	4,96313,11688,4284
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91862	4,96313,58965,5229
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91863	4,96314,06242,1028
	47276,0652
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91865	4,96315,00793,7186
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91866	4,96315,48068,7546
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91871	4,96317,84436,2157
	47271,9485
91872	4,96318,31708,1642
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91873	4,96318,78979,5982
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91874	4,96319,26250,5177
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91875	4,96319,73520,9226
	47269,8905
91876	4,96320,20790,8131
	47269,3759
91877	4,96320,68060,1890
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	47264,2316
91887	4,96325,40725,6537
	47263,7173
91888	4,96325,87989,3710
	47263,2029
91889	4,96326,35252,5739
	47262,6885
91890	4,96326,82515,2624
	47262,1742
91891	4,96327,29777,4366
	47261,6599
91892	4,96327,77039,0965
	47261,1456
91893	4,96328,24300,2421
	47260,6312
91894	4,96328,71560,8733
	47260,1170
91895	4,96329,18820,9903
	47259,6027
91896	4,96329,66080,5930
	47259,0884
91897	4,96330,13339,6814
	47258,5742
91898	4,96330,60598,2556
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91905	4,96333,91393,8764
	47254,4605
91906	4,96334,38648,3369
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91907	4,96334,85902,2832
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91908	4,96335,33155,7154
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91909	4,96335,80408,6335
	47252,4039
91910	4,96336,27661,0374
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91913	4,96337,69415,1645
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91914	4,96338,16665,5121
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	47248,8054
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91919	4,96340,52909,5390
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91920	4,96341,00156,8023
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91923	4,96342,41895,5082
	47245,2074
91924	4,96342,89140,7156
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91925	4,96343,36385,4090
	47244,1795
91926	4,96343,83629,5885
	47243,6655
91927	4,96344,30873,2540
	47243,1516
91928	4,96344,78116,4056
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91936	4,96348,56043,1185
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91937	4,96349,03281,6453
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91938	4,96349,50519,6583
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91939	4,96349,97757,1575
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91940	4,96350,44994,1429
	47236,4716
91941	4,96350,92230,6145
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91942	4,96351,39466,5723
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91943	4,96351,86702,0164
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91944	4,96352,33936,9468
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91945	4,96352,81171,3634
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91951	4,96355,64567,0754
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91952	4,96356,11797,8962
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91953	4,96356,59028,2034
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91954	4,96357,06257,9969
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91955	4,96357,53487,2768
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91956	4,96358,00716,0431
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	46894,2283
92612	4,96666,72630,9806
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92614	4,96667,66417,9182
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92813	4,96760,88106,2457
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92893	4,96798,29887,4160
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93139	4,96913,15707,5783
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93140	4,96913,62335,9671
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93162	4,96923,88033,8819
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93197	4,96940,19326,9286
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	46594,3708
93208	4,96945,31892,5044
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93664	4,97157,27007,5370
	46367,0315
93665	4,97157,73374,5685
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93666	4,97158,19741,1049
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93667	4,97158,66107,1463
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Num. absolut	Logarithmi.
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	46364,0615
93671	4,97160,51566,3621
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93672	4,97160,97929,9286
	46363,0715
93673	4,97161,44293,0001
	46362,5766
93674	4,97161,90655,5767
	46362,0817
93675	4,97162,37017,6584
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93676	4,97162,83379,2452
	46361,0918
93677	4,97163,29740,3370
	46360,5969
93678	4,97163,76100,9339
	46360,1020
93679	4,97164,22461,0359
	46359,6072
93680	4,97164,68820,6431
	46359,1123
93681	4,97165,15179,7554
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93682	4,97165,61538,3729
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93683	4,97166,07896,4955
	46357,6277
93684	4,97166,54254,1232
	46357,1329
93685	4,97167,00611,2561
	46356,6381
93686	4,97167,46967,8942
	46356,1433
93687	4,97167,93324,0375
	46355,6485
93688	4,97168,39679,6860
	46355,1537
93689	4,97168,86034,8397
	46354,6589
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	46354,1642
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93692	4,97170,25097,3322
	46353,1747
93693	4,97170,71450,5069
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93694	4,97171,17803,1869
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93695	4,97171,64155,3721
	46351,6905
93696	4,97172,10507,0626
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93697	4,97172,56858,2584
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93698	4,97173,03208,9595
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93706	4,97176,73996,7611
	46346,2494
93707	4,97177,20343,0105
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93708	4,97177,66688,7653
	46345,2602
93709	4,97178,13034,0255
	46344,7657
93710	4,97178,59378,7912
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93711	4,97179,05723,0623
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93720	4,97183,22799,2493
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93721	4,97183,69138,5755
	46338,8318
93722	4,97184,15477,4073
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93723	4,97184,61815,7446
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93724	4,97185,08153,5875
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93725	4,97185,54490,9359
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93730	4,97187,86170,2626
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93735	4,97190,17837,2308
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93738	4,97191,56831,4802
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93753	4,97198,51736,0083
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93754	4,97198,98059,0236
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93755	4,97199,44381,5448
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93763	4,97203,14943,9289
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93768	4,97205,46529,3639
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	46315,1112
93770	4,97206,39160,0802
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93771	4,97206,85474,6975
	46314,1234
93772	4,97207,31788,8209
	46313,6295
93773	4,97207,78102,4504
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93774	4,97208,24415,5860
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93775	4,97208,70728,2277
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	46311,6540
93777	4,97209,63352,0295
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93778	4,97210,09663,1896
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93786	4,97213,80134,6934
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	46304,2474
93792	4,97216,57967,5835
	46303,7537
93793	4,97217,04271,3372
	46303,2600
93794	4,97217,50574,5972
	46302,7663
93795	4,97217,96877,3635
	46302,2727
93796	4,97218,43179,6362
	46301,7791
93797	4,97218,89481,4153
	46301,2854
93798	4,97219,35782,7007
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93806	4,97223,06175,2144
	46296,8432
93807	4,97223,52472,0576
	46296,3497
93808	4,97223,98768,4073
	46295,8561
93809	4,97224,45064,2634
	46295,3626
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93813	4,97226,30242,7529
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93814	4,97226,76536,1416
	46292,8952
93815	4,97227,22829,0368
	46292,4018
93816	4,97227,69121,4386
	46291,9083
93817	4,97228,15413,3469
	46291,4149
93818	4,97228,61704,7618
	46290,9215
93819	4,97229,07995,6833
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93820	4,97229,54286,1114
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93821	4,97230,00576,0461
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93823	4,97230,93154,4354
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93824	4,97231,39442,8900
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93825	4,97231,85730,8512
	46287,4679
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93827	4,97232,78305,2937
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93828	4,97233,24591,7750
	46285,9879
93829	4,97233,70877,7629
	46285,4946
93830	4,97234,17163,2575
	46285,0013
93831	4,97234,63448,2588
	46284,5081
93832	4,97235,09732,7669
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93833	4,97235,56016,7817
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	46282,0419
93837	4,97237,41147,9085
	46281,5486
93838	4,97237,87429,4571
	46281,0554
93839	4,97238,33710,5125
	46280,5622
93840	4,97238,79991,0747
	46280,0690
93841	4,97239,26271,1437
	46279,5759
93842	4,97239,72550,7196
	46279,0827
93843	4,97240,18829,8023
	46278,5896
93844	4,97240,65108,3919
	46278,0964
93845	4,97241,11386,4883
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93846	4,97241,57664,0916
	46277,1102
93847	4,97242,03941,2018
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	46276,1239
93849	4,97242,96493,9427
	46275,6309
93850	4,97243,42769,5736
	46275,1378
93851	4,97243,89044,7114
	46274,6447
93852	4,97244,35319,3561
	46274,1517
93853	4,97244,81593,5078
	46273,6586
93854	4,97245,27867,1664
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93855	4,97245,74140,3320
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93856	4,97246,20413,0046
	46272,1795
93857	4,97246,66685,1841
	46271,6866
93858	4,97247,12956,8707
	46271,1935
93859	4,97247,59228,0642
	46270,7006
93860	4,97248,05498,7648
	46270,2076
93861	4,97248,51768,9724
	46269,7146
93862	4,97248,98038,6870
	46269,2217
93863	4,97249,44307,9087
	46268,7287
93864	4,97249,90576,6374
	46268,2358
93865	4,97250,36844,8732
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93866	4,97250,83112,6161
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Num. absolut	Logarithmi.
93867	4,97251,29379,8660
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93868	4,97251,75646,6231
	46266,2642
93869	4,97252,21912,8873
	46265,7713
93870	4,97252,68178,6586
	46265,2784
93871	4,97253,14443,9370
	46264,7856
93872	4,97253,60708,7226
	46264,2927
93873	4,97254,06973,0153
	46263,7999
93874	4,97254,53236,8152
	46263,3071
93875	4,97254,99500,1223
	46262,8142
93876	4,97255,45762,9365
	46262,3214
93877	4,97255,92025,2579
	46261,8287
93878	4,97256,38287,0866
	46261,3359
93879	4,97256,84548,4225
	46260,8431
93880	4,97257,30809,2656
	46260,3503
93881	4,97257,77069,6159
	46259,8576
93882	4,97258,23329,4735
	46259,3648
93883	4,97258,69588,8383
	46258,8721
93884	4,97259,15847,7104
	46258,3794
93885	4,97259,62106,0898
	46257,8867
93886	4,97260,08363,9765
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93889	4,97261,47134,6804
	46255,9159
93890	4,97261,93390,5963
	46255,4233
93891	4,97262,39646,0196
	46254,9306
93892	4,97262,85900,9502
	46254,4380
93893	4,97263,32155,3882
	46253,9454
93894	4,97263,78409,3336
	46253,4527
93895	4,97264,24662,7863
	46252,9602
93896	4,97264,70915,7465
	46252,4675
93897	4,97265,17168,2140
	46251,9750
93898	4,97265,63420,1890
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93899	4,97266,09671,6714
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93902	4,97267,48423,1632
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93903	4,97267,94672,6754
	46249,0197
93904	4,97268,40921,6951
	46248,5271
93905	4,97268,87170,2222
	46248,0346
93906	4,97269,33418,2568
	46247,5422
93907	4,97269,79665,7990
	46247,0497
93908	4,97270,25912,8487
	46246,5572
93909	4,97270,72159,4059
	46246,0648
93910	4,97271,18405,4707
	46245,5723
93911	4,97271,64651,0430
	46245,0799
93912	4,97272,10896,1229
	46244,5875
93913	4,97272,57140,7104
	46244,0950
93914	4,97273,03384,8054
	46243,6026
93915	4,97273,49628,4080
	46243,1102
93916	4,97273,95871,5182
	46242,6178
93917	4,97274,42114,1360
	46242,1255
93918	4,97274,88356,2615
	46241,6331
93919	4,97275,34597,8946
	46241,1408
93920	4,97275,80839,0354
	46240,6484
93921	4,97276,27079,6838
	46240,1561
93922	4,97276,73319,8399
	46239,6638
93923	4,97277,19559,5037
	46239,1715
93924	4,97277,65798,6752
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93925	4,97278,12037,3543
	46238,1868
93926	4,97278,58275,5411
	46237,6946
93927	4,97279,04513,2357
	46237,2023
93928	4,97279,50750,4380
	46236,7100
93929	4,97279,96987,1480
	46236,2178
93930	4,97280,43223,3658
	46235,7256
93931	4,97280,89459,0914
	46235,2333
93932	4,97281,35694,3247
	46234,7411
93933	4,97281,81929,0658
	46234,2489
93934	4,97282,28163,3147
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Num. absolut.	Logarithmi.
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	46233,7567
93935	4,97282,74397,0714
	46233,2645
93936	4,97283,20630,3359
	46232,7723
93937	4,97283,66863,1082
	46232,2802
93938	4,97284,13095,3884
	46231,7880
93939	4,97284,59327,1764
	46231,2959
93940	4,97285,05558,4723
	46230,8038
93941	4,97285,51789,2761
	46230,3118
93942	4,97285,98019,5877
	46229,8195
93943	4,97286,44249,4072
	46229,3274
93944	4,97286,90478,7346
	46228,8353
93945	4,97287,36707,5699
	46228,3432
93946	4,97287,82935,9131
	46227,8511
93947	4,97288,29163,7642
	46227,3591
93948	4,97288,75391,1233
	46226,8671
93949	4,97289,21617,9904
	46226,3750
93950	4,97289,67844,3654
	46225,8830
93951	4,97290,14070,2484
	46225,3909
93952	4,97290,60295,6393
	46224,8990
93953	4,97291,06520,5383
	46224,4069
93954	4,97291,52744,9452
	46223,9150
93955	4,97291,98968,8602
	46223,4230
93956	4,97292,45192,2832
	46222,9310
93957	4,97292,91415,2142
	46222,4391
93958	4,97293,37637,6533
	46221,9471
93959	4,97293,83859,6004
	46221,4552
93960	4,97294,30081,0556
	46220,9633
93961	4,97294,76302,0189
	46220,4713
93962	4,97295,22522,4902
	46219,9795
93963	4,97295,68742,4697
	46219,4875
93964	4,97296,14961,9572
	46218,9957
93965	4,97296,61180,9529
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93966	4,97297,07399,4567
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Num. absolut.	Logarithmi.
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93968	4,97297,99834,9887
	46217,0283
93969	4,97298,46052,0170
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93970	4,97298,92268,5534
	46216,0446
93971	4,97299,38484,5980
	46215,5528
93972	4,97299,84700,1508
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	46214,0774
93975	4,97301,23343,8584
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93976	4,97301,69557,4440
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	46212,6022
93978	4,97302,61983,1401
	46212,1104
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93980	4,97303,54406,8692
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93981	4,97304,00617,9962
	46210,6353
93982	4,97304,46828,6315
	46210,1436
93983	4,97304,93038,7751
	46209,6519
93984	4,97305,39248,4270
	46209,1602
93985	4,97305,85457,5872
	46208,6686
93986	4,97306,31666,2558
	46208,1769
93987	4,97306,77874,4327
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93988	4,97307,24082,1180
	46207,1936
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93991	4,97308,62702,2240
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93992	4,97309,08907,9428
	46205,2272
93993	4,97309,55113,1700
	46204,7357
93994	4,97310,01317,9057
	46204,2441
93995	4,97310,47522,1498
	46203,7525
93996	4,97310,93725,9023
	46203,2610
93997	4,97311,39929,1633
	46202,7694
93998	4,97311,86131,9327
	46202,2779
93999	4,97312,32334,2106
	46201,7864
94000	4,97312,78535,9970
	46201,2949

Num. absolut.	Logarithmi.
94001	4,97313,24737,2919
	46200,8034
94002	4,97313,70938,0953
	46200,3119
94003	4,97314,17138,4072
	46199,8204
94004	4,97314,63338,2276
	46199,3289
94005	4,97315,09537,5565
	46198,8375
94006	4,97315,55736,3940
	46198,3461
94007	4,97316,01934,7401
	46197,8546
94008	4,97316,48132,5947
	46197,3632
94009	4,97316,94329,9579
	46196,8718
94010	4,97317,40526,8297
	46196,3804
94011	4,97317,86723,2101
	46195,8890
94012	4,97318,32919,0991
	46195,3976
94013	4,97318,79114,4967
	46194,9063
94014	4,97319,25309,4030
	46194,4149
94015	4,97319,71503,8179
	46193,9236
94016	4,97320,17697,7415
	46193,4322
94017	4,97320,63891,1737
	46192,9409
94018	4,97321,10084,1146
	46192,4496
94019	4,97321,56276,5642
	46191,9582
94020	4,97322,02468,5224
	46191,4669
94021	4,97322,48659,9893
	46190,9757
94022	4,97322,94850,9650
	46190,4844
94023	4,97323,41041,4494
	46189,9931
94024	4,97323,87231,4425
	46189,5019
94025	4,97324,33420,9444
	46189,0106
94026	4,97324,79609,9550
	46188,5194
94027	4,97325,25798,4744
	46188,0282
94028	4,97325,71986,5026
	46187,5369
94029	4,97326,18174,0395
	46187,0458
94030	4,97326,64361,0853
	46186,5546
94031	4,97327,10547,6399
	46186,0634
94032	4,97327,56733,7033
	46185,5722
94033	4,97328,01919,2755
	46185,0810
94034	4,97328,49104,3565
	46184,5899

Num. absolut.	Logarithmi.
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94035	4,97328,95288,9464
	46184,0988
94036	4,97329,41473,0452
	46183,6076
94037	4,97329,87656,6528
	46183,1165
94038	4,97330,33839,7693
	46182,6254
94039	4,97330,80022,3947
	46182,1343
94040	4,97331,26204,5290
	46181,6432
94041	4,97331,72386,1722
	46181,1522
94042	4,97332,18567,3244
	46180,6611
94043	4,97332,64747,9855
	46180,1700
94044	4,97333,10928,1555
	46179,6790
94045	4,97333,57107,8345
	46179,1880
94046	4,97334,03287,0225
	46178,6969
94047	4,97334,49465,7194
	46178,2059
94048	4,97334,95643,9253
	46177,7149
94049	4,97335,41821,6402
	46177,2239
94050	4,97335,87998,8641
	46176,7329
94051	4,97336,34175,5970
	46176,2420
94052	4,97336,80351,8390
	46175,7510
94053	4,97337,26527,5900
	46175,2600
94054	4,97337,72702,8500
	46174,7691
94055	4,97338,18877,6191
	46174,2782
94056	4,97338,65051,8973
	46173,7872
94057	4,97339,11225,6845
	46173,2963
94058	4,97339,57398,9808
	46172,8054
94059	4,97340,03571,7862
	46172,3146
94060	4,97340,49744,1008
	46171,8237
94061	4,97340,95915,9245
	46171,3328
94062	4,97341,42087,2573
	46170,8419
94063	4,97341,88258,0992
	46170,3511
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	46169,3694
94066	4,97343,26767,6799
	46168,8786
94067	4,97343,72936,5585
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Num. absolut.	Logarithmi.
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	46167,8970
94069	4,97344,65272,8433
	46167,4062
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	46166,9154
94071	4,97345,57607,1649
	46166,4247
94072	4,97346,03773,5896
	46165,9339
94073	4,97346,49939,5235
	46165,4432
94074	4,97346,96104,9667
	46164,9525
94075	4,97347,42269,9192
	46164,4617
94076	4,97347,88434,3809
	46163,9710
94077	4,97348,34598,3519
	46163,4803
94078	4,97348,80761,8322
	46162,9896
94079	4,97349,26924,8218
	46162,4990
94080	4,97349,73087,3208
	46162,0083
94081	4,97350,19249,3291
	46161,5176
94082	4,97350,65410,8467
	46161,0270
94083	4,97351,11571,8737
	46160,5363
94084	4,97351,57732,4100
	46160,0457
94085	4,97352,03892,4557
	46159,5551
94086	4,97352,50052,0108
	46159,0645
94087	4,97352,96211,0753
	46158,5738
94088	4,97353,42369,6491
	46158,0833
94089	4,97353,88527,7324
	46157,5927
94090	4,97354,34685,3251
	46157,1021
94091	4,97354,80842,4272
	46156,6116
94092	4,97355,26999,0388
	46156,1210
94093	4,97355,73155,1598
	46155,6305
94094	4,97356,19310,7903
	46155,1400
94095	4,97356,65465,9303
	46154,6495
94096	4,97357,11620,5798
	46154,1589
94097	4,97357,57774,7387
	46153,6685
94098	4,97358,03928,4072
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94102	4,97359,88538,1764
	46151,2162
94103	4,97360,34689,3926
	46150,7257
94104	4,97360,80840,1183
	46150,2353
94105	4,97361,26990,3536
	46149,7449
94106	4,97361,73140,0985
	46149,2545
94107	4,97362,19289,3530
	46148,7641
94108	4,97362,65438,1171
	46148,2737
94109	4,97363,11586,3908
	46147,7834
94110	4,97363,57734,1742
	46147,2930
94111	4,97364,03881,4672
	46146,8027
94112	4,97364,50028,2699
	46146,3123
94113	4,97364,96174,5822
	46145,8220
94114	4,97365,42320,4042
	46145,3317
94115	4,97365,88465,7359
	46144,8414
94116	4,97366,34610,5773
	46144,3511
94117	4,97366,80754,9284
	46143,8608
94118	4,97367,26898,7892
	46143,3705
94119	4,97367,73042,1597
	46142,8803
94120	4,97368,19185,0400
	46142,3900
94121	4,97368,65327,4300
	46141,8998
94122	4,97369,11469,3298
	46141,4095
94123	4,97369,57610,7393
	46140,9193
94124	4,97370,03751,6586
	46140,4291
94125	4,97370,49892,0877
	46139,9389
94126	4,97370,96032,0266
	46139,4487
94127	4,97371,42171,4753
	46138,9585
94128	4,97371,88310,4338
	46138,4684
94129	4,97372,34448,9022
	46137,9782
94130	4,97372,80586,8804
	46137,4881
94131	4,97373,26724,3685
	46136,9979
94132	4,97373,72861,3664
	46136,5078
94133	4,97374,18997,8742
	46136,0177
94134	4,97374,65133,8919
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Num. absolut.	Logarithmi.
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	46135,5275
94135	4,97375,11269,4194
	46135,0374
94136	4,97375,57404,4568
	46134,5474
94137	4,97376,03539,0042
	46134,0573
94138	4,97376,49673,0615
	46133,5672
94139	4,97376,95806,6287
	46133,0772
94140	4,97377,41939,7059
	46132,5871
94141	4,97377,88072,2930
	46132,0971
94142	4,97378,34204,3901
	46131,6071
94143	4,97378,80335,9972
	46131,1170
94144	4,97379,26467,1142
	46130,6271
94145	4,97379,72597,7413
	46130,1371
94146	4,97380,18727,8784
	46129,6471
94147	4,97380,64857,5255
	46129,1571
94148	4,97381,10986,6826
	46128,6671
94149	4,97381,57115,3497
	46128,1772
94150	4,97382,03243,5269
	46127,6873
94151	4,97382,49371,2142
	46127,1973
94152	4,97382,95498,4115
	46126,7074
94153	4,97383,41625,1189
	46126,2175
94154	4,97383,87751,3364
	46125,7276
94155	4,97384,33877,0640
	46125,2377
94156	4,97384,80002,3017
	46124,7478
94157	4,97385,26127,0495
	46124,2580
94158	4,97385,72251,3075
	46123,7681
94159	4,97386,18375,0756
	46123,2783
94160	4,97386,64498,3539
	46122,7884
94161	4,97387,10621,1423
	46122,2986
94162	4,97387,56743,4409
	46121,8088
94163	4,97388,02865,2497
	46121,3189
94164	4,97388,48986,5686
	46120,8292
94165	4,97388,95107,3978
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94166	4,97389,41227,7372
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94167	4,97389,87347,5868
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94168	4,97390,33466,9467
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94169	4,97390,79585,8168
	46118,3803
94170	4,97391,25704,1971
	46117,8906
94171	4,97391,71822,0877
	46117,4009
94172	4,97392,17939,4886
	46116,9112
94173	4,97392,64056,3998
	46116,4215
94174	4,97393,10172,8213
	46115,9318
94175	4,97393,56288,7531
	46115,4421
94176	4,97394,02404,1952
	46114,9524
94177	4,97394,48519,1476
	46114,4628
94178	4,97394,94633,6104
	46113,9732
94179	4,97395,40747,5836
	46113,4835
94180	4,97395,86861,0671
	46112,9939
94181	4,97396,32974,0610
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	46112,0146
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94184	4,97397,71310,1049
	46111,0355
94185	4,97398,17421,1404
	46110,5459
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	46109,5667
94188	4,97399,55751,3093
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94189	4,97400,01860,3865
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94190	4,97400,47968,9742
	46108,0982
94191	4,97400,94077,0724
	46107,6086
94192	4,97401,40184,6810
	46107,1191
94193	4,97401,86291,8001
	46106,6296
94194	4,97402,32398,4297
	46106,1402
94195	4,97402,78504,5699
	46105,6507
94196	4,97403,24610,2206
	46105,1612
94197	4,97403,70715,3818
	46104,6718
94198	4,97404,16820,0536
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94202	4,97406,01233,8463
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94203	4,97406,47336,0710
	46101,7353
94204	4,97406,93437,8063
	46101,2459
94205	4,97407,39539,0522
	46100,7565
94206	4,97407,85639,8087
	46100,2672
94207	4,97408,31740,0759
	46099,7778
94208	4,97408,77839,8537
	46099,2885
94209	4,97409,23939,1422
	46098,7992
94210	4,97409,70037,9414
	46098,3098
94211	4,97410,16136,2512
	46097,8205
94212	4,97410,62234,0717
	46097,3313
94213	4,97411,08331,4030
	46096,8420
94214	4,97411,54428,2450
	46096,3527
94215	4,97412,00524,5977
	46095,8634
94216	4,97412,46620,4611
	46095,3742
94217	4,97412,92715,8353
	46094,8849
94218	4,97413,38810,7202
	46094,3957
94219	4,97413,84905,1159
	46093,9064
94220	4,97414,30999,0223
	46093,4172
94221	4,97414,77092,4395
	46092,9280
94222	4,97415,23185,3675
	46092,4388
94223	4,97415,69277,8063
	46091,9497
94224	4,97416,15369,7560
	46091,4605
94225	4,97416,61461,2165
	46090,9713
94226	4,97417,07552,1878
	46090,4822
94227	4,97417,53642,6700
	46089,9931
94228	4,97417,99732,6631
	46089,5039
94229	4,97418,45822,1670
	46089,0148
94230	4,97418,91911,1818
	46088,5257
94231	4,97419,37999,7075
	46088,0366
94232	4,97419,84087,7441
	46087,5475
94233	4,97420,30175,2916
	46087,0584
94234	4,97420,76262,3500
	46086,5693
94235	4,97421,22348,9193
	46086,0803
94236	4,97421,68434,9996
	46085,5912
94237	4,97422,14520,5908
	46085,1022
94238	4,97422,60605,6930
	46084,6132
94239	4,97423,06690,3062
	46084,1242
94240	4,97423,52774,4304
	46083,6351
94241	4,97423,98858,0655
	46083,1462
94242	4,97424,44941,2117
	46082,6572
94243	4,97424,91023,8689
	46082,1682
94244	4,97425,37106,0371
	46081,6792
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94246	4,97426,29268,9065
	46080,7013
94247	4,97426,75349,6078
	46080,2124
94248	4,97427,21429,8202
	46079,7235
94249	4,97427,67509,5437
	46079,2346
94250	4,97428,13588,7783
	46078,7457
94251	4,97428,59667,5240
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94252	4,97429,05745,7808
	46077,7679
94253	4,97429,51823,5487
	46077,2790
94254	4,97429,97900,8277
	46076,7902
94255	4,97430,43977,6179
	46076,3013
94256	4,97430,90053,9192
	46075,8125
94257	4,97431,36129,7317
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94258	4,97431,82205,0554
	46074,8348
94259	4,97432,28279,8902
	46074,3460
94260	4,97432,74354,2362
	46073,8572
94261	4,97433,20428,0934
	46073,3684
94262	4,97433,66501,4618
	46072,8797
94263	4,97434,12574,3415
	46072,3909
94264	4,97434,58646,7324
	46071,9022
94265	4,97435,04718,6346
	46071,4134
94266	4,97435,50790,0480
	46070,9247
94267	4,97435,96860,9727
	46070,4359
94268	4,97436,42931,4086
	46069,9472
94269	4,97436,89001,3558
	46069,4585
94270	4,97437,35070,8143
	46068,9698
94271	4,97437,81139,7841
	46068,4811
94272	4,97438,27208,2652
	46067,9925
94273	4,97438,73276,2577
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94274	4,97439,19343,7615
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	46066,0379
94277	4,97440,57543,3410
	46065,5493
94278	4,97441,03608,8903
	46065,0606
94279	4,97441,49673,9509
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94280	4,97441,95738,5229
	46064,0834
94281	4,97442,41802,6063
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	46063,1063
94283	4,97443,33929,3075
	46062,6177
94284	4,97443,79991,9252
	46062,1292
94285	4,97444,26054,0544
	46061,6406
94286	4,97444,72115,6950
	46061,1521
94287	4,97445,18176,8471
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94288	4,97445,64237,5107
	46060,1751
94289	4,97446,10297,6858
	46059,6866
94290	4,97446,56357,3724
	46059,1981
94291	4,97447,02416,5705
	46058,7096
94292	4,97447,48475,2801
	46058,2212
94293	4,97447,94533,5013
	46057,7327
94294	4,97448,40591,2340
	46057,2443
94295	4,97448,86648,4783
	46056,7558
94296	4,97449,32705,2341
	46056,2674
94297	4,97449,78761,5015
	46055,7790
94298	4,97450,24817,2805
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94299	4,97450,70872,5711
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94303	4,97452,55088,8496
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94304	4,97453,01141,6983
	46052,3604
94305	4,97453,47194,0587
	46051,8721
94306	4,97453,93245,9308
	46051,3837
94307	4,97454,39297,3145
	46050,8954
94308	4,97454,85348,2099
	46050,4071
94309	4,97455,31398,6170
	46049,9188
94310	4,97455,77448,5358
	46049,4305
94311	4,97456,23497,9663
	46048,9423
94312	4,97456,69546,9086
	46048,4540
94313	4,97457,15595,3626
	46047,9658
94314	4,97457,61643,3284
	46047,4775
94315	4,97458,07690,8059
	46046,9893
94316	4,97458,53737,7952
	46046,5011
94317	4,97458,99784,2963
	46046,0128
94318	4,97459,45830,3091
	46045,5247
94319	4,97459,91875,8338
	46045,0365
94320	4,97460,37920,8703
	46044,5483
94321	4,97460,83965,4186
	46044,0601
94322	4,97461,30009,4787
	46043,5720
94323	4,97461,76053,0507
	46043,0839
94324	4,97462,22096,1346
	46042,5957
94325	4,97462,68138,7303
	46042,1076
94326	4,97463,14180,8379
	46041,6195
94327	4,97463,60222,4574
	46041,1313
94328	4,97464,06263,5887
	46040,6433
94329	4,97464,52304,2320
	46040,1552
94330	4,97464,98344,3872
	46039,6671
94331	4,97465,44384,0543
	46039,1791
94332	4,97465,90423,2334
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94333	4,97466,36461,9244
	46038,2030
94334	4,97466,82500,1274
	46037,7149

Num. absolut.	Logarithmi.
94334	4,97466,82500,1274
	46037,7149
94335	4,97467,28537,8423
	46037,2269
94336	4,97467,74575,0692
	46036,7389
94337	4,97468,20611,8081
	46036,2509
94338	4,97468,66648,0590
	46035,7629
94339	4,97469,12683,8219
	46035,2749
94340	4,97469,58719,0968
	46034,7870
94341	4,97470,04753,8838
	46034,2990
94342	4,97470,50788,1828
	46033,8110
94343	4,97470,96821,9938
	46033,3231
94344	4,97471,42855,3169
	46032,8352
94345	4,97471,88888,1521
	46032,3473
94346	4,97472,34920,4994
	46031,8593
94347	4,97472,80952,3587
	46031,3715
94348	4,97473,26983,7302
	46030,8836
94349	4,97473,73014,6138
	46030,3957
94350	4,97474,19045,0095
	46029,9078
94351	4,97474,65074,9173
	46029,4200
94352	4,97475,11104,3373
	46028,9321
94353	4,97475,57133,2694
	46028,4443
94354	4,97476,03161,7137
	46027,9565
94355	4,97476,49189,6702
	46027,4686
94356	4,97476,95217,1388
	46026,9808
94357	4,97477,41244,1196
	46026,4931
94358	4,97477,87270,6127
	46026,0053
94359	4,97478,33296,6180
	46025,5175
94360	4,97478,79322,1355
	46025,0297
94361	4,97479,25347,1652
	46024,5420
94362	4,97479,71371,7072
	46024,0543
94363	4,97480,17395,7615
	46023,5665
94364	4,97480,63419,3280
	46023,0788
94365	4,97481,09442,4068
	46022,5911
94366	4,97481,55464,9979
	46022,1034
94367	4,97482,01487,1013
	46021,6157

Num. absolut.	Logarithmi.
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	46021,6157
94368	4,97482,47508,7170
	46021,1280
94369	4,97482,93529,8450
	46020,6403
94370	4,97483,39550,4853
	46020,1527
94371	4,97483,85570,6380
	46019,6650
94372	4,97484,31590,3030
	46019,1774
94373	4,97484,77609,4804
	46018,6898
94374	4,97485,23628,1702
	46018,2022
94375	4,97485,69646,3724
	46017,7145
94376	4,97486,15664,0869
	46017,2269
94377	4,97486,61681,3138
	46016,7394
94378	4,97487,07698,0532
	46016,2518
94379	4,97487,53714,3050
	46015,7642
94380	4,97487,99730,0692
	46015,2767
94381	4,97488,45745,3459
	46014,7891
94382	4,97488,91760,1350
	46014,3016
94383	4,97489,37774,4366
	46013,8141
94384	4,97489,83788,2507
	46013,3265
94385	4,97490,29801,5772
	46012,8390
94386	4,97490,75814,4162
	46012,3516
94387	4,97491,21826,7678
	46011,8641
94388	4,97491,67838,6319
	46011,3766
94389	4,97492,13850,0085
	46010,8891
94390	4,97492,59860,8976
	46010,4017
94391	4,97493,05871,2993
	46009,9142
94392	4,97493,51881,2135
	46009,4268
94393	4,97493,97890,6403
	46008,9394
94394	4,97494,43899,5797
	46008,4519
94395	4,97494,89908,0316
	46007,9645
94396	4,97495,35915,9961
	46007,4772
94397	4,97495,81923,4733
	46006,9898
94398	4,97496,27930,4631
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94399	4,97496,73936,9655
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94400	4,97497,19942,9806
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Num. absolut.	Logarithmi.	Num. absolut.	Logarithmi.	Num. absolut.	Logarithmi.
94401	4,97497,65948,50833 46005,04044	94434	4,97512,83857,58760 45988,96402	94467	4,97528,01236,32555 45972,89887
94402	4,97498,11953,54877 46004,55317	94435	4,97513,29842,55162 45988,47702	94468	4,97528,47209,22458 45972,41222
94403	4,97498,57958,10188 46004,06577	94436	4,97513,75835,02864 45987,98200	94469	4,97528,93181,63680 45971,92555
94404	4,97499,03962,16765 46003,57844	94437	4,97514,21823,01868 45987,50300	94470	4,97529,39153,56208 45971,43829
94405	4,97499,49965,74609 46003,09114	94438	4,97514,67810,52161 45987,01613	94471	4,97529,85125,20091 45970,95233
94406	4,97499,95968,83707 46002,60028	94439	4,97515,13797,53774 45986,52923	94472	4,97530,31095,95332 45970,46567
94407	4,97500,41971,44087 46002,11662	94440	4,97515,59784,06637 45986,04229	94473	4,97530,77066,41899 45969,97918
94408	4,97500,87973,55749 46001,62931	94441	4,97516,05770,10914 45985,55534	94474	4,97531,23036,39833 45969,49251
94409	4,97501,33975,18680 46001,14214	94442	4,97516,51755,66448 45985,06844	94475	4,97531,69005,89084 45968,00591
94410	4,97501,79976,32894 46000,65481	94443	4,97516,97740,73289 45984,58144	94476	4,97532,14974,89675 45968,51941
94411	4,97502,25976,98375 46000,16761	94444	4,97517,43725,31433 45984,09461	94477	4,97532,60943,41116 45968,03328
94412	4,97502,71977,15136 45999,68031	94445	4,97517,89709,40894 45983,60771	94478	4,97533,06911,44863 45967,54631
94413	4,97503,17976,83167 45999,19311	94446	4,97518,35693,01654 45983,12081	94479	4,97533,52878,99494 45967,05971
94414	4,97503,63976,02478 45998,70591	94447	4,97518,81676,13735 45982,63391	94480	4,97533,98846,05465 45966,57321
94415	4,97504,09974,73069 45998,21871	94448	4,97519,27658,77126 45982,14711	94481	4,97534,44812,62786 45966,08671
94416	4,97504,55972,94925 45997,73151	94449	4,97519,73640,91837 45981,66021	94482	4,97534,90778,71457 45965,60021
94417	4,97505,01970,68076 45997,24441	94450	4,97520,19622,57858 45981,17341	94483	4,97535,36744,31478 45965,11371
94418	4,97505,47967,92517 45996,75721	94451	4,97520,65603,75199 45980,68661	94484	4,97535,82709,42840 45964,62721
94419	4,97505,93964,68238 45996,27001	94452	4,97521,11584,43857 45980,19971	94485	4,97536,28674,05561 45964,14071
94420	4,97506,39960,95239 45995,78291	94453	4,97521,57564,63828 45979,71301	94486	4,97536,74638,19631 45963,65431
94421	4,97506,85956,73520 45995,29581	94454	4,97522,03544,35129 45979,22621	94487	4,97537,20601,85061 45963,16781
94422	4,97507,31952,03101 45994,80871	94455	4,97522,49523,57741 45978,73941	94488	4,97537,66565,01842 45962,68141
94423	4,97507,77946,83972 45994,32151	94456	4,97522,95502,31682 45978,25261	94489	4,97538,12527,69983 45962,19501
94424	4,97508,23941,16123 45993,83441	94457	4,97523,41480,56943 45977,76591	94490	4,97538,58489,89484 45961,70851
94425	4,97508,69934,99564 45993,34731	94458	4,97523,87458,33534 45977,27911	94491	4,97539,04451,60335 45961,22211
94426	4,97509,15928,34295 45992,86031	94459	4,97524,33435,61445 45976,79241	94492	4,97539,50412,82546 45960,73571
94427	4,97509,61921,20326 45992,37321	94460	4,97524,79412,40686 45976,30571	94493	4,97539,96373,56117 45960,24931
94428	4,97510,07913,57647 45991,88611	94461	4,97525,25388,71257 45975,81891	94494	4,97540,42333,81048 45959,76301
94429	4,97510,53905,46258 45991,39911	94462	4,97525,71364,53148 45975,33221	94495	4,97540,88293,57348 45959,27661
94430	4,97510,99896,86169 45990,91201	94463	4,97526,17339,86369 45974,84551	94496	4,97541,34252,85009 45958,79021
94431	4,97511,45887,77369 45990,42501	94464	4,97526,63314,70919 45974,35881	94497	4,97541,80211,64028 45958,30381
94432	4,97511,91878,19864 45989,93801	94465	4,97527,09289,06794 45973,87211	94498	4,97542,26169,94409 45957,81751
94433	4,97512,37868,13665 45989,45101	94466	4,97527,55262,94005 45973,38551	94499	4,97542,72127,76152 45957,33121
94434	4,97512,83857,58760 45988,96402	94467	4,97528,01236,32555 45972,89887	94500	4,97543,18085,09274 45956,84491

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94502	4,97544,09998,2961
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94503	4,97544,55954,1684
	45955,3860
94504	4,97545,01909,5544
	45954,8997
94505	4,97545,47864,4541
	45954,4134
94506	4,97545,93818,8675
	45953,9272
94507	4,97546,39772,7947
	45953,4410
94508	4,97546,85726,2357
	45952,9547
94509	4,97547,31679,1904
	45952,4685
94510	4,97547,77631,6589
	45951,9823
94511	4,97548,23583,6412
	45951,4960
94512	4,97548,69535,1372
	45951,0098
94513	4,97549,15486,1470
	45950,5237
94514	4,97549,61436,6707
	45950,0375
94515	4,97550,07386,7082
	45949,5513
94516	4,97550,53336,2595
	45949,0652
94517	4,97550,99285,3247
	45948,5790
94518	4,97551,45233,9037
	45948,0929
94519	4,97551,91181,9966
	45947,6068
94520	4,97552,37129,6034
	45947,1206
94521	4,97552,83076,7240
	45946,6346
94522	4,97553,29023,3586
	45946,1485
94523	4,97553,74969,5071
	45945,6624
94524	4,97554,20915,1695
	45945,1763
94525	4,97554,66860,3458
	45944,6903
94526	4,97555,12805,0361
	45944,2042
94527	4,97555,58749,2403
	45943,7182
94528	4,97556,04692,9585
	45943,2321
94529	4,97556,50636,1906
	45942,7461
94530	4,97556,96578,9367
	45942,2601
94531	4,97557,42521,1968
	45941,7741
94532	4,97557,88462,9709
	45941,2881
94533	4,97558,34404,2590
	45940,8021
94534	4,97558,80345,0611
	45940,3162
94535	4,97559,26285,3773
	45939,8302
94536	4,97559,72225,2075
	45939,3443
94537	4,97560,18164,5518
	45938,8583
94538	4,97560,64103,4101
	45938,3724
94539	4,97561,10041,7825
	45937,8865
94540	4,97561,55979,6690
	45937,4006
94541	4,97562,01917,0696
	45936,9147
94542	4,97562,47853,9843
	45936,4288
94543	4,97562,93790,4131
	45935,9429
94544	4,97563,39726,3560
	45935,4570
94545	4,97563,85661,8130
	45934,9712
94546	4,97564,31596,7842
	45934,4854
94547	4,97564,77531,2696
	45933,9995
94548	4,97565,23465,2691
	45933,5137
94549	4,97565,69398,7828
	45933,0279
94550	4,97566,15331,8107
	45932,5421
94551	4,97566,61264,3528
	45932,0563
94552	4,97567,07196,4091
	45931,5705
94553	4,97567,53127,9796
	45931,0847
94554	4,97567,99059,0643
	45930,5989
94555	4,97568,44989,6632
	45930,1132
94556	4,97568,90919,7764
	45929,6275
94557	4,97569,36849,4039
	45929,1417
94558	4,97569,82778,5456
	45928,6560
94559	4,97570,28707,2016
	45928,1703
94560	4,97570,74635,3719
	45927,6846
94561	4,97571,20563,0565
	45927,1989
94562	4,97571,66490,2554
	45926,7132
94563	4,97572,12416,9686
	45926,2276
94564	4,97572,58343,1962
	45925,7419
94565	4,97573,04268,9381
	45925,2562
94566	4,97573,50194,1943
	45924,7706
94567	4,97573,96118,9649
	45924,2850
94568	4,97574,42043,2499
	45923,7994
94569	4,97574,87967,0493
	45923,3137
94570	4,97575,33890,3630
	45922,8281
94571	4,97575,79813,1911
	45922,3425
94572	4,97576,25735,5336
	45921,8570
94573	4,97576,71657,3906
	45921,3714
94574	4,97577,17578,7620
	45920,8859
94575	4,97577,63499,6479
	45920,4003
94576	4,97578,09420,0482
	45919,9148
94577	4,97578,55339,9630
	45919,4293
94578	4,97579,01259,3923
	45918,9437
94579	4,97579,47178,3360
	45918,4582
94580	4,97579,93096,7942
	45917,9727
94581	4,97580,39014,7669
	45917,4873
94582	4,97580,84932,2542
	45917,0018
94583	4,97581,30849,2560
	45916,5163
94584	4,97581,76765,7723
	45916,0308
94585	4,97582,22681,8031
	45915,5454
94586	4,97582,68597,3485
	45915,0600
94587	4,97583,14512,4085
	45914,5745
94588	4,97583,60426,9830
	45914,0891
94589	4,97584,06341,0721
	45913,6037
94590	4,97584,52254,6758
	45913,1183
94591	4,97584,98167,7941
	45912,6329
94592	4,97585,44080,4270
	45912,1476
94593	4,97585,89992,5746
	45911,6622
94594	4,97586,35904,2368
	45911,1769
94595	4,97586,81815,4137
	45910,6915
94596	4,97587,27726,1052
	45910,2062
94597	4,97587,73636,3114
	45909,7208
94598	4,97588,19546,0322
	45909,2356
94599	4,97588,65455,2678
	45908,7502
94600	4,97589,11364,0180
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94601	4,97589,57272,2830
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94602	4,97590,03180,0627
	45907,2944
94603	4,97590,49087,3571
	45906,8091
94604	4,97590,94994,1662
	45906,3239
94605	4,97591,40900,4901
	45905,8387
94606	4,97591,86806,3288
	45905,3534
94607	4,97592,32711,6822
	45904,8682
94608	4,97592,78616,5504
	45904,3830
94609	4,97593,24520,9334
	45903,8978
94610	4,97593,70424,8312
	45903,4126
94611	4,97594,16328,2438
	45902,9274
94612	4,97594,62231,1712
	45902,4423
94613	4,97595,08133,6135
	45901,9571
94614	4,97595,54035,5706
	45901,4720
94615	4,97595,99937,0426
	45900,9868
94616	4,97596,45838,0294
	45900,5017
94617	4,97596,91738,5311
	45900,0166
94618	4,97597,37638,5477
	45899,5315
94619	4,97597,83538,0792
	45899,0464
94620	4,97598,29437,1256
	45898,5613
94621	4,97598,75335,6869
	45898,0762
94622	4,97599,21233,7631
	45897,5911
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	45897,1061
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	45896,6211
94625	4,97600,58925,0814
	45896,1360
94626	4,97601,04821,2174
	45895,6510
94627	4,97601,50716,8684
	45895,1660
94628	4,97601,96612,0344
	45894,6810
94629	4,97602,42506,7154
	45894,1960
94630	4,97602,88400,9114
	45893,7110
94631	4,97603,34294,6224
	45893,2260
94632	4,97603,80187,8484
	45892,7411
94633	4,97604,26080,5895
	45892,2561
94634	4,97604,71972,8456
	45891,7712
94635	4,97605,17864,6168
	45891,2863
94636	4,97605,63755,9031
	45890,8013
94637	4,97606,09646,7044
	45890,3163
94638	4,97606,55537,0208
	45889,8315
94639	4,97607,01426,8523
	45889,3466
94640	4,97607,47316,1989
	45888,8617
94641	4,97607,93205,0606
	45888,3769
94642	4,97608,39093,4375
	45887,8920
94643	4,97608,84981,3295
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94644	4,97609,30868,7367
	45886,9223
94645	4,97609,76755,6590
	45886,4375
94646	4,97610,22642,0965
	45885,9526
94647	4,97610,68528,0491
	45885,4678
94648	4,97611,14413,5169
	45884,9831
94649	4,97611,60298,5000
	45884,4983
94650	4,97612,06182,9983
	45884,0135
94651	4,97612,52067,0118
	45883,5287
94652	4,97612,97950,5405
	45883,0440
94653	4,97613,43833,5845
	45882,5592
94654	4,97613,89716,1437
	45882,0745
94655	4,97614,35598,2182
	45881,5898
94656	4,97614,81479,8080
	45881,1050
94657	4,97615,27360,9130
	45880,6203
94658	4,97615,73241,5333
	45880,1356
94659	4,97616,19121,6689
	45879,6510
94660	4,97616,65001,3199
	45879,1663
94661	4,97617,10880,4862
	45878,6816
94662	4,97617,56759,1678
	45878,1969
94663	4,97618,02637,3647
	45877,7123
94664	4,97618,48515,0770
	45877,2277
94665	4,97618,94392,3047
	45876,7431
94666	4,97619,40269,0478
	45876,2584
94667	4,97619,86145,3062
	45875,7738
94668	4,97620,32021,0800
	45875,2892
94669	4,97620,77896,3692
	45874,8047
94670	4,97621,23771,1739
	45874,3201
94671	4,97621,69645,4940
	45873,8355
94672	4,97622,15519,3295
	45873,3510
94673	4,97622,61392,6805
	45872,8664
94674	4,97623,07265,5469
	45872,3819
94675	4,97623,53137,9288
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95385	4,97948,00840,3930 45530,4509
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95388	4,97949,37430,3136 45529,0189
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95390	4,97950,28487,8741 45528,0643
95391	4,97950,74015,9384 45527,5870
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95393	4,97951,65070,6352 45526,6325
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	45518,5207
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	45515,1814
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95425	4,97966,21686,2114
	45511,3656
95426	4,97966,67197,5770
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95428	4,97967,58218,8775
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95490	4,97995,78933,4067
	45480,3862
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95492	4,97996,69893,7028
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	45473,2431
95506	4,98003,06562,4384
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95507	4,98003,52035,2054
	45472,2908
95508	4,98003,97507,4962
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95509	4,98004,42979,3109
	45471,3387
95510	4,98004,88450,6496
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95513	4,98006,24861,8091
	45469,4344
95514	4,98006,70331,2435
	45468,9583
95515	4,98007,15800,2018
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95528	4,98013,06853,3441
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95529	4,98013,52315,6388
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95539	4,98018,06912,4130
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95540	4,98018,52369,4734
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95542	4,98019,43282,1668
	45455,6330
95543	4,98019,88737,7998
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95563	4,98028,97750,5644
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95571	4,98032,61302,4031
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95572	4,98033,06744,2432
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95573	4,98033,52185,6078
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95586	4,98039,42880,0846
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95587	4,98039,88314,7937
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95588	4,98040,33749,0275
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95589	4,98040,79182,7859
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95590	4,98041,24616,0691
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95592	4,98042,15481,2096
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95593	4,98042,60913,0669
	45431,3820
95594	4,98043,06344,4489
	45430,9068
95595	4,98043,51775,3557
	45430,4315
95596	4,98043,97205,7872
	45429,9563
95597	4,98044,42635,7435
	45429,4811
95598	4,98044,88065,2246
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95605	4, 98048, 06058, 2869
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	45425, 2046
95607	4, 98048, 96909, 1712
	45424, 7294
95608	4, 98049, 42333, 9006
	45424, 2543
95609	4, 98049, 87758, 1549
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	45423, 3041
95611	4, 98050, 78605, 2382
	45422, 8290
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	45422, 3540
95613	4, 98051, 69450, 4212
	45421, 8789
95614	4, 98052, 14872, 3001
	45421, 4039
95615	4, 98052, 60293, 7040
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95616	4, 98053, 05714, 6328
	45420, 4538
95617	4, 98053, 51135, 0866
	45419, 9788
95618	4, 98053, 96555, 0654
	45419, 5038
95619	4, 98054, 41974, 5692
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95620	4, 98054, 87393, 5979
	45418, 5537
95621	4, 98055, 32812, 1516
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95622	4, 98055, 78230, 2304
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95623	4, 98056, 23647, 8342
	45417, 1288
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95627	4, 98058, 05313, 4998
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95628	4, 98058, 50728, 7289
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	45414, 2792
95630	4, 98059, 41557, 7623
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	45413, 3295
95632	4, 98060, 32384, 8962
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95634	4, 98061, 23210, 1305
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Num. absolut.	Logarithmi.
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95636	4, 98062, 14033, 4654
	45410, 9552
95637	4, 98062, 59444, 4206
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95638	4, 98063, 04854, 9010
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95639	4, 98063, 50264, 9066
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95641	4, 98064, 41083, 4934
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95646	4, 98066, 68121, 6518
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95657	4, 98071, 67563, 8253
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95658	4, 98072, 12964, 8113
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95659	4, 98072, 58365, 3227
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95676	4, 98080, 30101, 4097
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95694	4, 98088, 47084, 2908
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95695	4, 98088, 92467, 7227
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95696	4, 98089, 37850, 6803
	45382, 4834
95697	4, 98089, 83233, 1637
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95698	4, 98090, 28615, 1728
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95706	4,98093,91654,1748
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95707	4,98094,37031,9163
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95708	4,98094,82409,1837
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95711	4,98096,18538,1412
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95712	4,98096,63913,5122
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95713	4,98097,09288,4091
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95714	4,98097,54662,8319
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95716	4,98098,45410,2554
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	45207, 2222
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	45197, 3422
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96090	4, 98267, 81933, 8349
	45196, 4015
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	45195, 9312
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	45195, 4608
96093	4, 98269, 17521, 6284
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	45189,3473
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96107	4,98275,50208,6999
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	45186,0561
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	45180,4153
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96126	4,98284,08708,0401
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96127	4,98284,53887,5152
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96129	4,98285,44245,0556
	45178,0652
96130	4,98285,89423,1208
	45177,5952
96131	4,98286,34600,7160
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	45173,3660
96140	4,98290,41177,9263
	45172,8961
96141	4,98290,86350,8224
	45172,4263
96142	4,98291,31523,2487
	45171,9564
96143	4,98291,76695,2051
	45171,4866
96144	4,98292,21866,6917
	45171,0167
96145	4,98292,67037,7084
	45170,5469
96146	4,98293,12208,2553
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	45166,3190
96155	4,98297,18722,0373
	45165,8493
96156	4,98297,63887,8866
	45165,3796
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	45164,9098
96158	4,98298,54218,1760
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96159	4,98298,99382,6161
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	45158,8046
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	45158,3351
96172	4,98304,86477,6007
	45157,8655
96173	4,98305,31635,4662
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96174	4,98305,76792,8621
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96255	4,98342,32983,4688
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96391	4,98403,64858,4468
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96396	4,98405,90130,1103
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98060	4,99149,18889,1017
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	44287,9705
98062	4,99150,07465,4944
	44287,5189
98063	4,99150,51753,0133
	44287,0672
98064	4,99150,96040,0805
	44286,6156
98065	4,99151,40326,6961
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98066	4,99151,84612,8601
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98067	4,99152,28898,5725
	44285,2609

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98068	4,99152,73183,8334
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98069	4,99153,17468,6427
	44284,3577
98070	4,99153,61753,0004
	44283,9062
98071	4,99154,06036,9066
	44283,4546
98072	4,99154,50320,3612
	44283,0031
98073	4,99154,94603,3643
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98074	4,99155,38885,9158
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	44281,1970
98077	4,99156,71730,8613
	44280,7455
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	44280,2941
98079	4,99157,60291,9009
	44279,8426
98080	4,99158,04571,7435
	44279,3911
98081	4,99158,48851,1346
	44278,9396
98082	4,99158,93130,0742
	44278,4882
98083	4,99159,37408,5624
	44278,0368
98084	4,99159,81686,5992
	44277,5853
98085	4,99160,25964,1845
	44277,1339
98086	4,99160,70241,3184
	44276,6825
98087	4,99161,14518,0009
	44276,2311
98088	4,99161,58794,2320
	44275,7797
98089	4,99162,03070,0117
	44275,3284
98090	4,99162,47345,3401
	44274,8770
98091	4,99162,91620,2171
	44274,4256
98092	4,99163,35894,6427
	44273,9742
98093	4,99163,80168,6169
	44273,5229
98094	4,99164,24442,1398
	44273,0716
98095	4,99164,68715,2114
	44272,6203
98096	4,99165,12987,8317
	44272,1689
98097	4,99165,57260,0006
	44271,7176
98098	4,99166,01531,7182
	44271,2663
98099	4,99166,45802,9845
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98102	4,99167,78614,0757
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98103	4,99168,22883,5369
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98105	4,99169,11421,1056
	44268,1075
98106	4,99169,55689,2131
	44267,6563
98107	4,99169,99956,8694
	44267,2050
98108	4,99170,44224,0744
	44266,7538
98109	4,99170,88490,8282
	44266,3027
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	44265,8515
98111	4,99171,77022,9824
	44265,4003
98112	4,99172,21288,3827
	44264,9491
98113	4,99172,65553,3318
	44264,4979
98114	4,99173,09817,8297
	44264,0468
98115	4,99173,54081,8765
	44263,5956
98116	4,99173,98345,4721
	44263,1445
98117	4,99174,42608,6166
	44262,6934
98118	4,99174,86871,3100
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	44261,3401
98121	4,99176,19656,6836
	44260,8890
98122	4,99176,63917,5726
	44260,4379
98123	4,99177,08178,0105
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	44259,5358
98125	4,99177,96697,5331
	44259,0848
98126	4,99178,40956,6179
	44258,6337
98127	4,99178,85215,2516
	44258,1827
98128	4,99179,29473,4343
	44257,7316
98129	4,99179,73731,1659
	44257,2806
98130	4,99180,17988,4465
	44256,8296
98131	4,99180,62245,2761
	44256,3786
98132	4,99181,06501,6547
	44255,9276
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98136	4,99182,83522,6594
	44254,1238
98137	4,99183,27776,7832
	44253,6729
98138	4,99183,72030,4561
	44253,2219
98139	4,99184,16283,6780
	44252,7710
98140	4,99184,60536,4490
	44252,3201
98141	4,99185,04788,7691
	44251,8692
98142	4,99185,49040,6383
	44251,4183
98143	4,99185,93292,0566
	44250,9674
98144	4,99186,37543,0240
	44250,5165
98145	4,99186,81793,5405
	44250,0657
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	44248,7131
98149	4,99188,58791,0980
	44248,2623
98150	4,99189,03039,3603
	44247,8115
98151	4,99189,47287,1718
	44247,3606
98152	4,99189,91534,5324
	44246,9098
98153	4,99190,35781,4422
	44246,4591
98154	4,99190,80027,9013
	44246,0083
98155	4,99191,24273,9096
	44245,5575
98156	4,99191,68519,4671
	44245,1067
98157	4,99192,12764,5738
	44244,6560
98158	4,99192,57009,2298
	44244,2052
98159	4,99193,01253,4350
	44243,7545
98160	4,99193,45497,1895
	44243,3038
98161	4,99193,89740,4933
	44242,8531
98162	4,99194,33983,3464
	44242,4023
98163	4,99194,78225,7487
	44241,9516
98164	4,99195,22467,7003
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	44238,3464
98172	4,99198,76387,0893
	44237,8957
98173	4,99199,20624,9850
	44237,4451
98174	4,99199,64862,4301
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98175	4,99200,09099,4246
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98176	4,99200,53335,9685
	44236,0934
98177	4,99200,97572,0619
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98178	4,99201,41807,7047
	44235,1922
98179	4,99201,86042,8969
	44234,7417
98180	4,99202,30277,6386
	44234,2911
98181	4,99202,74511,9297
	44233,8406
98182	4,99203,18745,7703
	44233,3901
98183	4,99203,62979,1604
	44232,9395
98184	4,99204,07212,0999
	44232,4890
98185	4,99204,51444,5889
	44232,0385
98186	4,99204,95676,6274
	44231,5881
98187	4,99205,39908,2155
	44231,1376
98188	4,99205,84139,3531
	44230,6871
98189	4,99206,28370,0402
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98190	4,99206,72600,2768
	44229,7862
98191	4,99207,16830,0630
	44229,3357
98192	4,99207,61059,3987
	44228,8853
98193	4,99208,05288,2840
	44228,4349
98194	4,99208,49516,7189
	44227,9844
98195	4,99208,93744,7033
	44227,5340
98196	4,99209,37972,2373
	44227,0836
98197	4,99209,82199,3209
	44226,6333
98198	4,99210,26425,9542
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98228	4,99223, 53015,5665
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98235	4,99226, 62494,8449
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98236	4,99227, 06704,3702
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	44208,1752
98239	4,99228, 39330,2458
	44207,7252
98240	4,99228, 83537,9710
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98241	4,99229, 27745,2462
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	44202,3259
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98272	4,99242, 97947,6298
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	44183,4386
98294	4,99252, 70087,1291
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98295	4,99253, 14270,1181
	44182,5396
98296	4,99253, 58452,6577
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	44178,9440
98304	4,99257,11896,7937
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98305	4,99257,56075,2883
	44178,0452
98306	4,99258,00253,3335
	44177,5958
98307	4,99258,44430,9293
	44177,1464
98308	4,99258,88608,0757
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98309	4,99259,32784,7727
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98312	4,99260,65312,1676
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98317	4,99262,86182,1725
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98318	4,99263,30354,8256
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98319	4,99263,74527,0294
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98320	4,99264,18698,7839
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98321	4,99264,62870,0892
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98322	4,99265,07040,9452
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98323	4,99265,51211,3520
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98324	4,99265,95381,3095
	44169,5083
98325	4,99266,39550,8178
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98326	4,99266,83719,8769
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98327	4,99267,27888,4868
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98328	4,99267,72056,6474
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98336	4,99271,25385,7628
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98337	4,99271,69549,8811
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98342	4,99273,90363,7362
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98344	4,99274,78686,1347
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98357	4,99280,52737,9467
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98363	4,99283,17659,3470
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98368	4,99285,38414,8364
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	44147,9562
98373	4,99287,59159,1053
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98374	4,99288,03306,6127
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98375	4,99288,47453,6713
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98386	4,99293,33041,7001
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98387	4,99293,77183,3742
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98388	4,99294,21324,5996
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98390	4,99295,09605,7046
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98392	4,99295,97885,0151
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98394	4,99296,86162,5311
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98395	4,99297,30300,6163
	44137,6366
98396	4,99297,74438,2529
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98397	4,99298,18575,4409
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